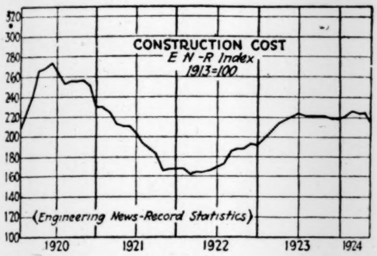
CONSTRUCTION NEWS

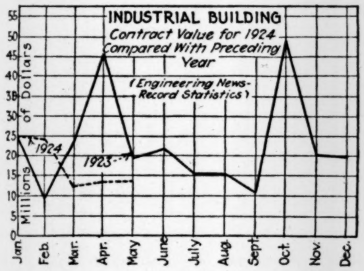
Engineering News-Record, June 12, 1924

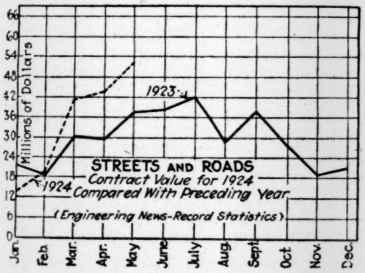
The Construction Barometer

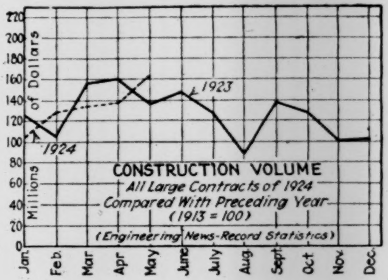
Upward Trend in Construction Still Evident Both as to Money Value of Contracts Let and Number of Jobs Now Out for Bids—Production Slowing Down in Most Other Industries

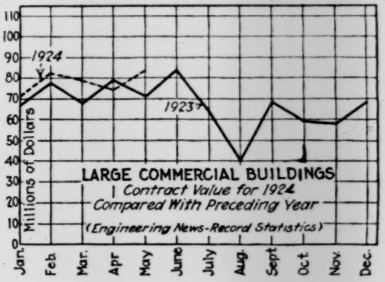
WITH reports of recessions in trade and industry coming in from every direction, it is interesting to note that during the past week the total value of large contracts awarded showed a substantial increase over the week preceding. The number of large jobs now out for bids, on all classes of work, is also greater. The industries most affected by the depression, are: iron, steel, automotive, coal and textiles. The trend is upward, however, in contract letting on water-works, sewers, streets and roads, Federal Government work and both private and public buildings. Bridge contracts and lettings for excavations, drainage and irrigation projects have been on the wane during the past month.

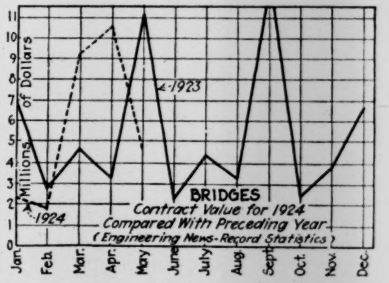












Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
May 22	$35,046,000	$13,689,000	$48,735,000
May 29	24,429,000	19,422,000	43,851,000
June 5	27,725,000	19,189,000	46,914,000
3 weeks	$87,200,000	$52,300,000	$139,500,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

Week Ended	No.	Public Work	No.	Private Work
May 22	19	$12,021,000	24	$8,348,000
May 29	11	4,377,000	19	12,425,000
June 5	8	4,801,000	47	13,899,000
3 weeks	38	$21,199,000	90	$34,672,000

NUMBER OF LARGE JOBS NOW OUT FOR BIDS

		Public			
Week Ended	Private	All Buildings	Streets and Roads	Water-works and Sewers	All Public
May 22	30	41	111	41	248
May 29	24	45	84	35	213
June 5	35	53	95	55	250

RANGE OF STEEL AND LUMBER PRICES SLIGHTLY BELOW LEVEL OF MAY 29

	Quoted on June 12 at	Price was	On
Structurals, Pittsburgh, 100 lb.......	$2.10 @2.25	$2.10 @2.30	June 5
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.....	59.00	60.00	May 29
Fir, San Fran., M.ft...	36.00	38.00	Jan. 24
Common labor, hr....	.56	.55	Apr. 24

Waterworks

PROPOSED WORK

N. Y., Barneveld—Village Bd. plans new water supply system. $35,000.

N. Y., Victor—Will sell $50,000 bonds June 27, for reservoir, mains, pumps, motors, etc. M. Keating, village clk.; adv. E. N.-R. June 12.

N. Y., Saratoga Springs—Making plans gravity water supply, incl. earthen dam 150,000 cu.yd. excav., embankment, concrete corewall, filtration plant and 10 mi. c.i. pipe. J. P. Wells, Cutler Bldg., Rochester, engr. Noted May 8.

N. J., Pennington—Soon takes bids replacing 8 in. main in South Franklin and Eglantine Sts. $18,000. H. L. Laning, town engr.

N. C., Edenton—Having plans prepared and soon lets contract extensions to water distribution and sewerage systems. $40,000. Drane & Smith, Charlotte, engrs.

La., Oak Grove—Voted $45,000 bonds for water works and electric light plant.

Tenn., Bristol—Voted $30,000 bonds for waterworks. T. J. Bunnon, city clk.

Ky., Clifton — Sold $15,000 bonds for waterworks extensions.

Ill., Sullivan—Making surveys additional water supply, wells, etc. Holbrook, Warren and Van Praag, Decatur, engrs.

Neb., Beatrice—Election soon to vote on $70,000 bonds for waterworks. Prince & Nixon Eng. Co., 501 Peters Trust Bldg., Omaha, engrs.

Mo., St. Louis—Soon takes bids approximately 12 mi. and 48 and 60 in. steel pressure conduit pipe and $200,000 for maintenance of hurdle dikes at new waterworks Howards Bend, Missouri River. $2,350,000. E. E. Wall, City Hall, city comr.

Tex., Claude—Voted $45,000 bonds complete waterworks. Noted May 15.

Tex., Collinsville—Election soon $20,000 bonds, complete waterworks. Engineer not announced.

Tex., Dallas—Making plans 9 projects for 12- to 16-in. main extensions and 1 artesian well in Oak Cliff. $250,000. E. A. Kingsley, city engr.

Tex., El Paso—Plans enclosed aqueduct to bring water from Elephant Butte dam, to here. E. D. Park, El Paso will submit plant before El Paso Real Estate Bd. about June 15. L. M. Lawson, mgr. of Rio Grande Irrigation Project in southern New Mexico, etc., is also assisting in formulating plans for same. $6,000,000.

Tex., Galveston—Election July 15, $100,000 bonds, storage reservoir. L. McCarthy, comr. finance and revenue.

Tex., Jayton — Making plans complete waterworks. $20,000. Montgomery & Ward, City Natl. Bank Bldg., Wichita Falls, engrs.

Tex., Midland—See "Sewers."

Waterworks (Continued)

Tex., Port Arthur—Attorney General approved $91,500 bonds new waterworks pumping system, etc., $119,500 bonds for main extension, larger mains, laterals both on old streets and new extensions, $69,500 bonds Shreveport Canal conduit. J. P. Logan, mayor.

Tex., Slaton — Voted $60,000 bonds waterworks improvements. H. C. McGee, city secy.

Tex., Whitney—Making plans complete waterworks. $15,000-$20,000. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Wash., Kelso—Voted $250,000 bonds improving water system, incl. filtration system, cost $28,000, 2 m.g. reservoir, installing distribution and other mains. Noted May 1.

Wash., Port Angeles—Election July 12, $625,000 bonds purchase, additions and improvements of plant owned by Northern Pacific Pub. Serv. Corp. $280,000 will be expended on purchasing plant, balance installing of water diverting system at Morse Creek, etc. Noted Nov. 8.

Calif., St. Helena — Plans to purchase one deep well 100 g.p.m. pump to operate against 300 ft.; 15 hp. electric motor; chlorinator plant; 800 ft. 4 in. O. D. casing and fittings. J. Mitchell, city engr.

Que., Shawinigan Falls—Takes bids in June, 1,600 ft. 16 ft. c.i. mains 6- to 12-in. diam. $31,000. J. H. Valiquet, city engr.

Que., Three Rivers—Takes bids in June, rein.-con., brick and steel filtration plant $213,000, water intake $30,000, new pumps $34,000, street connections $11,000, contingent $57,000, also laying 869 ft. 10 in., 6,050 ft. 8 in., and 2,470 ft. 6 in. c.i. mains $33,000, 3,100 ft. 24 in., 3,700 ft. 20 in., 1,610 ft. 18 in. and 220 ft. 12 in. c.i. mains in St. Maurice, St. Julie, Thomas, St. Honore, St. Marie and Niverville Sts. $118,000. C. Gelinas, city engr.

Ont., Saulte Ste. Marie—Plans 3,000 ft. 1.6 in. c.j. mains, etc. $25,000. W. M. Cornell, Water & Light Dept., engr.

BIDS DESIRED

N. Y., Long Island City—June 17, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Varian Pl., Bway., Elmhurst, Lewis, Skillman, Van Gelder, Foster, Continental, Herrick, Roman and Stafford Aves., Manley, Harrow, Ivy, 9th, Carolin, Fleet, Exeter, Ingram, Juno, Jessel and Loubet Sts., here.

N. Y., New York—June 17, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bronx River Parkway, Gun Hill Rd., Cannon, Hennessy, Carroll and Loring Places, Bway., and grounds of Bellevue Hospital, Barnes, Kingsland, Monticello, Pitman, Paulding, Thierot, Andres, Liebig, Netherlands, Chittenden, 5th, 10th, Delafield, Newton and Sedgwick Aves., East 210th, East 213th, East 223rd, East 208th, West 261st, Murray, East 57th, West 143rd, Allen, Hudson, Reade, Wooster, East 8th, East 42nd, West 40th, Tiffany, East 166th, West 256th, West 260th and West 262nd Sts.

N. Y., St. George—June 17, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Gansvoort Blvd., Cunard Pl., Amelia Court, Arthur, Austin, Cedar, Carlton, Castleton, Hamilton, McFarland, Myrtle, Oakwood, Robinson, Scribner, South, Wilson and Winant Aves., Bishop, Clawson, Delmont, Elmer, Larkin, Nugent and 10th Sts., here.

Md., Baltimore—June 18, by Bd. Awards, trench excavation in eastern, western and southern districts, also 100,000 lead substitute for Water Dept. V. B. Siems, City Hall, water engr.

W. Va., Wheeling — See "Streets and Roads."

Minn., St. Paul — See "Materials and Equipment."

Ariz., Williams—June 24, by city, earth dam and improvements to waterworks. Burns & McDonnell Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, Calif., consult. engrs. Noted May 8.

Tex., Ft. Worth — R. L. Rogers, 112½ West 9th St., taking bids c.i. pipe for main extensions in Berkley Pl. D. L. Lewis, city engr.

Tex., Kaufman—See "Excavation, Drainage, Irrigation."

BIDS RECEIVED

Mass., Waltham (Boston P. O.)—Metropolitan Dist. Comn., Water Div., 1 Ashburton Pl., Boston, about 15,400 ft. 60 in. steel pipe, 200 ft. 16 to 60-in. cast iron pipe and 200 yds. rock excav., from C. and R. Constr. Co., 3 Tremont Row, Boston. $563,230. Noted Apr. 24.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., from Norton Eng. & Contrg. Co., 510 West 149th St., mains in Gildersleeve, Hudson, Ludlow, Olmstead, Pugsley and Waterbury Aves., Barrette, Bolton , Purdy, and East 172nd Sts., $11,300; White Plains Rd., Bryant, Fowler, Gleason, Leland, Noble and Wallace Aves., $8,300; from Melrose Constr. Co., 230 East 162nd St., Morris Lane, Balcom, Brinsmade, Butterick, Calhoun, Emerson, Graff, Harding, Hosmer, Huntington, Lawton, McDowell, Miles, Quincy and Robinson Aves., $12,828. Noted May 29.

Ill., Villa Park—Village, May 26, wells (a) 12 in. cased hold (b) 12 in. uncased (c) 10 in. cased (d) 10 in. uncased, from W .L. Thorne, Desplaines, (a) $11.50 (b) $8 (c) $11 (d) $5; steel tower and tank from Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $10,640. Noted May 29.

Md., Baltimore—Trench excav. for Water Dept., from M. L. Quinn, 5308 York Rd., $23,570.

Wis., Kimberly—From Pastoret Constr. Co., Sellwood Bldg., Duluth, Minn., 4,368 ft. 12 in. c.i. pipe $1 per ft., 5,065 ft. 8 in. c.i. pipe $0.68 per ft., 10,799 ft. 6 in. c.i. pipe $0.59 per ft., manholes $65, valves $9, hydrants $10; Blake Constr. Co., 627 South River St., Appleton, $8,343; Wicks Eng. & Constr. Co., 418 Polk Bldg., Des Moines, Ia., water tank and tower, $8,900; Albert & Sons, Neenah, manhole covers, $6.25 each. Noted May 29.

Wis., Racine—F. McElroy, supt. Water Comn., June 2, coagulating basin, from Bondgard & Christensen, 1135 Mound Ave., $79,367; 2,000 ft. 24 in. and 2,100 ft. 30 in. pipe, from A. C. Jensen, 1311 West Blvd., $14,968; venturi meter, from Iron Fdry., 9 Codding St., Providence, R. I., $1400. Noted May 1.

Okla., Oklahoma City—Raising embankment around 2 sides of reservoir and riprapping slopes, from Maney Bros., Empire Bldg., $72,940. Engrs. est. $90,000. Noted May 8.

CONTRACTS AWARDED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Hegeman, Prospect, Flatland, Lott, Bedford, Riverdale and Sheffield Aves., etc., to G. V. Cornell, Rosebank, S. I., $11,634. Noted June 5.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply Gas & Electricity, Municipal Bldg., New York, mains in Skillman Ave., Buckley and Packard Sts., to S. Gallucci, 38 Railroad Ave., Corona; in Chauncey, Calamus, Clermont Sts., etc., to Kennedy & Smith Inc., 93 Amity St., Flushing, $6,999. Noted June 5.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Arnow, Adee, Barnes and Paulding Sts., to Melrose Constr. Co., 230 East 162nd St., $5,600; in Longfellow, Sheridan and Teller Aves., to Beaver Eng. & Contg. Co., 51 Chambers St., $9,910. Noted June 5.

La., New Iberia—L. F. Villermin, city clk., 400 hp. Diesel oil engine, to McIntosh & Seymour, New Iberia, $56,050; electrical equipment, to Westinghouse Electric Mfg. Co., Maison Blanche Bldg., New Orleans, $16,426, pumps, to L. S. Vallely & Co., Whitney Annex, New Orleans, $7,275, general construction, to J. B. McCrary & Co., New Iberia, $56,000. Noted May 15.

Ky., Owensboro—Laying about 6,000 ft. mains, to E. M. Kerlin, Vincennes, Ind., about $20,000. Noted Mar. 31.

Minn., Minneapolis—For 152 tons castings for filtration plant, to Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave., $117.50 per ton. Noted May 29.

Minn., Rochester — For 2 motor driven pumps, to R. B. Whitacre & Co., 205 South Robert St., St. Paul, $5,000; 1 pump, to Commonwealth Electric Co., 417 Bway., St. Paul, $9,000. Noted Apr. 17.

Minn., Red Wing—Waterworks improvements, 1 m.g. rein.-con. reservoir, to H. E. Rhodes Constr. Co., Guthrie Center, Ia., $19,638; excav., to C. W. Johnson, Red Wing, $5,000; city will build pump house by day labor. Noted May 8.

Minn., St. Paul—See "Material and equipment."

Ark., Little Rock — National Guard of Arkansas, 50,000 gal. steel water tank on 75 ft. tower at Camp Pike, to Pittsburgh-Des Moines Co., Curry Bldg., Pittsburgh, Pa., $32,000; constructing rifle range, to G. E. Wycoff, Little Rock, $8,500. Noted Feb. 21.

Ont., Grimsby — T. Allan, clk. North Grimsby Twp., extending mains, 8,000 ft. 6 in. c.i. pipe, to Gartshore-Thompson Pipe & Fdry. Co., Hamilton, trenching, laying and jointing pipe, to Elmira Plumbing & Constr. Co., Elmira, specials, to Crane Ltd., Teraulay St., Toronto. Engrs. est. $30,000. Noted Mar. 27.

Ont., Toronto—To Grant Contg. Co., 59 Front St. E., laying 36 in. c.i. mains in Spadina Rd. $25,188, 16 in. c.i. mains in King St. W., $2,430; to Ruscica Bros., 256 Ontario St., mains in Melcourt Rd. $430, St. Hildas Ave. $277, Gresham Rd. $430, and Thurston Rd. $430; to W. E. Taylor, 22 Falcon St., mains in Belsize Dr. $1,132, Cheston Rd. $421 and Manor Rd. $643.

Ont., Toronto—York Twp., 40 Jarvis St., furnishing c.i. pipe to Natl. Iron Corp., foot of Cherry St., $33,000; special castings to Worr Fdry. Co., 163 Sterling Rd., $2,000; hydrants to J. I. Hepburn, 18 Van Horne St., $7,000; lead pipe and pig lead, to Canada Metal Co. Ltd., 39 Fraser Ave., $23,000; brass fittings, etc., to Empire Brass Co., 110 Adelaide St. W., $9,800.

Peru—Water and sewerage systems in 32 cities, here, to Foundation Co., 120 Liberty St., New York City, $50,000,000.

Sewers

PROPOSED WORK

N. Y., Endicott—Plans sanitary sewers in Union Dist. and North Adams Ave. $35,000; storm sewers in Tracy St., $3,500; in North Side, $6,500; in Union Dist. $10,000. C. E. Bennett, village pres.

W. Va., Beckley — See "Streets and Roads."

W. Va., Morgantown—Election June 26, $600,000 bonds for sewers. P. C. White, city clk.

N. C., Edenton—See "Waterworks."

Fla., Kissimmee—Election June 28, $26,500 bonds storm sewers; $70,000 bonds extending sanitary sewers. E. B. Doughton, city mgr.

Miss., Natchez—Plans sewer extensions. $30,000.

Ky., Mayfield—Soon takes bids sewerage system. To exceed $50,000. Black & Veatch Co., 701 Mutual Bldg., Kansas City, Mo., engrs. Noted Apr. 24.

Ky., Paducah—Plans lateral sewers in various streets. $500,000 to $600,000. A. Bradshaw, city engr.

Mich., Detroit — Dept. Pub. Wks. had plans prepared vitr. crock sewers 2,336 ft. Storm Sewer 4147 12 in. pipe; 2,243 ft. Storm Sewer 4148, 12- to 18-in. pipe; 2,040 ft. Storm Sewer 4149, 12- to 18-in. pipe; 1,272 ft. Lateral 4085, 12- to 24-in. pipe; 919 ft. Lateral 4134, 12- to 24-in. pipe; 625 ft. Lateral 4142, 12 and 15 in. pipe; 1,230 ft. Lateral 4144, 12- to 18-in. pipe; 479 ft. Lateral 4145, 12 and 15 in. pipe; 1,124 ft. Lateral 4146, 12 -to 20-in. pipe. G. Jerome, City Hall, engr.

Mich., Detroit — Dept. Pub. Wks., had plans prepared 1,380 ft. Tireman Ave. Arm of East Wyoming Ave. Sewer, 670 ft. 4 ft. 6 in. cylinder, 680 ft. 4 ft. cylinder, and 30 ft. 24 in. crock. G. Jerome, city engr.

Mich., Port Huron—Had plans prepared approximately 3 mi. vitr. clay lateral sewers in various alleys, 6 to 10 ft. average depth. E. R. Whitmore, City Hall, engr.

Ill., Decatur—Making plans north side sewerage system. $350,000. Holbrook, Warren & Van Praag, Decatur, engrs.

Ia., Ireton—Plans sewerage system. $40,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Tex., Fort Arthur—Attorney General approved $132,500 bonds sewer extensions, mains and laterals to newly populated additions, etc. J. P. Logan, mayor.

Tex., Midland—Voted $76,000 bonds sewer and water extensions. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs. Noted May 1.

Tex., Slaton—Voted $40,000 bonds, complete sewer system. Ganatt-Baker Co., 1116 West Main St., Oklahoma City, Okla., engrs.

Calif., Huntington Park (branch of Los Angeles)—Making plans sewerage system. To exceed $25,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Los Angeles — Los Angeles Co. Flood Control Dist., making plans 2 mi. Altadena Storm Drain, 1,000 lin.ft. tunnel and drain from 4 to 7 ft. wide at bottom, from 5 to 9 ft. wide at top, from 3 to 4 ft. deep. $750,000. J. W. Reagan, Hall of Records Bldg., engr.

Calif., Los Angeles—Had plans prepared Arroyo de Sacatella Storm Drain, to drain swamp running from 3rd Ave. to Vineyard, between Pico St. and Country Club Dr. $2,570,000. J. A. Griffin, city engr.

Calif., Mill Valley—Making plans improving sewerage system. From $25,000 to $30,000. J. C. Oglesby, Courthouse, San Rafael, engr.

Ont., Chippewa—Having plans prepared about 8 mi. vitr. tile sewerage system. $65,000. A. W. Connor Co., Royal Bank Bldg., Toronto, engrs.

Sewers (Continued)

Ont., Islington—Etobicoke Twp., having plans prepared rein.-con. disposal plant, probably activated sludge type, in Long Branch Sect. $40,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

Mass., Medford (Boston, P. O.)—June 19, by Metropolitan Dist. Comn., Sewer Div., 1 Ashburton Pl., Boston, 3,100 ft. sewers and excavations in High St. from Warren St. across tracks of Boston & Maine R.R. to Massachusetts Ave., here. $40,000 bonds. G. L. Rogers, secy.

N. Y., Brooklyn—June 18, by E. Riegelmann, boro pres., Boro Hall, repairing sewer culverts in various locations, constructing sewers in 55th, West 9th, East 34th, East 27th, Minna, East 43rd, 77th, and East 13th Sts.

Pa., Butler—June 17, by C. G. Chase, clk. City Council, sewers, Projects 2 and 3. F. M. Harper, city engr.; adv. E. N.-R. June 12.

Md., Baltimore—June 18, by Bd. Awards, sewers and drains in Sewer Dist. P-8, Storm Water Contr. 69. S. Purcell, ch. engr.; adv. E. N.-R. June 12.

Md., Baltimore—June 18, by Bd. Awards, motor-operated pump and c.i. pipe in Sludge Pumping Station 2, at Back River Sewage Treatment Wks. B. L. Crozier, City Hall, highways engr.

D. C., Wash.—June 30, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave. ,16,500 ft. 6- to 18-in. sewers, etc. R. B. Morse, Hyattsville, Md., engr.; adv. E. N.-R. June 12.

W. Va., Wheeling — See "Streets and Roads."

La., Shreveport—June 19, at office B. W. Marston, pres., 601 Ardis Bldg., sanitary sewer, disposal plant, curb, pavement and storm sewer in Shreveport Country Home Assn. Subdivision, near here. C. D. Evans, 308-309 Levy Bldg., consult. engr.; adv. E. N.-R. June 12.

O., Massillon—See "Streets and Roads."

Mich., Grand Rapids—June 30, at office Director Pub. Serv., City Hall, First St. Relief Sewer Project Contr. R-1. F. H. Locke, city mgr.; adv. E. N.-R. June 12.

Ark., El Dorado — See "Streets and Roads."

Tex., Dallas—J. P. Stephenson, c/o Koch & Fowler, engrs., Central Bank Bldg., taking bids 18- to 24-in. tile sewer in Midway Rd. $75,000.

Calif., Fresno—City Council taking bids, 10,155 lin.ft. 6 in. vitr. sewer, 30 manholes, 42 lampholes, in various sections. W. Stranahan, city engr.

Calif., Burbank — June 24, by City Trustees, 37,921 ft. 8- to 24-in. vitr. pipe, one rein.-con. Imhoff tank, 13,150 ft. 8- to 14-in. c.i. pipe, 3 pumping stations, pumps, motors. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs. Noted Mar. 27.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelman, boro. pres., Boro. Hall, **(e.e. means engineers estimate)** from Booth & Flinn Ltd., Green and Tompkins Aves., repairing relief sewers in Green, Lewis and Marcy Aves., etc., $198,180; from Manmill Constr. Co., 2035 Douglas St., sewers in 65th St. 83.5% (e.e. $13,876) 68th St. 85.8% ($5,394) 7th Ave. 92.5% ($1,328) 12th Ave., 95% ($1,264); from S. Coenzo, 678 Glenmore Ave., East 32nd St. 84.75% ($11,779); from Tomasetti & Co., Inc., 1133 60th St., Colonial Rd. 83% ($7,038); from C. F. Vacharas, 645 40th St., 9th Ave., 111% ($1,852); from R. Iovino, 678 Glenmore Ave., Mansfield Pl. 75% ($1,400). Noted May 29.

N. J., Sayreville—Boro. Council, completing sewerage system from L. Gilbert, Bound Brook, $99,145. Noted May 22.

Pa., Phila. — Delaware River Bridge Joint Comn., Widener Bldg., sewers for bridge over Delaware River between here and Camden, N. J., Contr. 16, from Lombardi Co., Inc., Lincoln Bldg., $173,464. Noted May 22.

O., Euclid—Sewers in Bliss Rd., from C. W. Jackson, 1318 East 84th St., Cleveland, concrete pipe $193,781, brick $218,828, segment $215,178.

Mich., Detroit—Dept. Pub. Wks., Eaton Ave. Arm West of Livernois Ave. Sewer, from A. Rossi, 1337 Brady St., $36,668; Eaton Ave. Arm East of Wyoming Ave. Sewer and Mack Ave. Arm East of Ashland Ave. Sewer, from J. Rossi, Detroit, $38,651 and $27,324 respectively; Harper Ave. Arm West of Bedford Ave. Sewer from J. A. Mercier, 616 Hammond Bldg., $17,640; Lateral 4126, from Michigan Constr. Co., Detroit, $6,320, Lateral 4128, from Detroit Drainage Constr. Co., 400 Penobscot Bldg., $19,227; Lateral 4139, from Central Constr. & Eng. Co., Detroit, $4,841; Lateral 4141, from Western Constr. Co., 1208 Ford Bldg., $2,290. Noted May 22.

Ark., Pine Bluff — Jefferson Co. Sewer Dist. 1, 63,962 ft. 6- to 15-in. clay sewer 204 manholes, 8 flush tanks, etc., from Rowan & Rickard, Oklahoma City, Okla., $67,425, with disposal plant, $85,225. Noted May 5.

Mo., St. Louis—For Sect. A, Ohio-Montrose Public Relief Sewer, from United Constr. Co., Pontiac Bldg., $301,861, engrs. est. $305,000, Sect. B, North Baden Public Sewer, from G. G. Prendergast & Co., 6157 Wagner Ave., $174,769, engrs. est. $208,000. Noted May 8.

Calif. Irvington — Irvington Sanitary Sewer Dist., 7½ mi. 6- to 12-in. sanitary sewer, from Oakland Sewer Constr. Co., 1003 85th Ave., Oakland, $33,109. Noted May 15.

Calif., Niles—Niles Sanitary Dist., disposal system, from Deuble & Garden, 386 15th St., Oakland, $39,975.

Calif., San Diego—Sewerage system, Mission Beach St., 27,945 lin.ft. 6 in., 5,470 lin.ft. 10 in., 6,781 lin.ft. 12 in. concrete pipe, 127 manholes, 6 flush tanks, one settling tank, 3 pumping stations, 1,200 lin.ft. c.i. outfall pipe, from Downer & Mero, 401 16th St., Richmond, $159,016. Noted May 22.

CONTRACTS AWARDED

Conn., Hartford—Trunk sewers in Wells and East Sts., to N. C. Casciano & Co., 132 Temple St., $30,412. Engrs. est. $35,000.

N. Y., Long Island City—M. E. Connolly pres. Queens Boro, Queens Subway Bldg., to Kennedy & Smith, Inc., 93 Amity St., Flushing, sewer in National Ave., etc., $4,011; to Green Contg. Co., 737 Vernon Ave., Astoria, sewer in Lake St., Way and Roosevelt Aves., $3,115; to Johnson & McHugh, 37 Britton Ave., Elmhurst, sewer in 146th St. (Brewster Ave.), $9,185; to J. Gallo, 203 Division St., Brooklyn, sewer in 95th St., $30,732, and sewer in Sandol St., $60,136; to D. A. Gross, 8515 Fulton St., Woodhaven, sewer in 92nd St., $10,372. Noted June 5.

Ala., Birmingham—Sanitary and storm sewers, to McIntosh Co., Oklahoma City, Okla., $251,609. Noted Jan. 24.

Miss., Hollandale—Sanitary sewers, incl. manholes, tanks, etc., to M. H. Ellis, Clarksdale, $14,039; furnishing clay sewer products, to F. R. Thomas & Co., Central Bank Bldg., Memphis, Tenn. Noted May 15.

Ill., Astoria—For 27,550 ft. 8 and 10 in. sewers, 74 manholes, etc., in general streets, to V. E. Taylor & Co., Webster Groves, Mo., $33,574. Engrs. est. $41,235. Noted June 5.

Wyo., Casper—See "Streets and Roads."

Tex., Lubbock—For 16- to 36-in. tile and 36- to 78-in. monolithic storm sewers in various streets, to Panhandle Constr. Co., Lubbock, $208,354.

Okla., Oklahoma City—For 9,600 lin.ft. 8 in. vitr. clay lateral sanitary sewers in Parkview, Shaw Heights, Hillcrest and Isle View Dists., to Municipal Excavator Co., 200 East Main St., $28,064. Engrs. est. $30,000.

Wash., Seattle — Bd. Pub. Wks., clay sewers in Oregon St., et al., to H. Pederson, Alaska Bldg., $352,552. Engrs. est. $316,936. Noted May 29.

Ont., Toronto—Dept. Pub. Wks. will build 1½ mi. 6 ft. brick and rein.-con. trunk interceptor sewer, by day labor. $130,442. R. C. Harris, city engr.

Bridges

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—City of Boston plans rearranging and rebuilding bridge between Lincoln and Dickens Sts., (carrying Old Colony R.R. tracks), to 70 ft. width for street, here. $75,000. F. H. Fay, chn. City Planning Bd., Boston.

Pa., Bridgewater—Bucks Co. (Doylestown), plans 3 span concrete bridge over Neshaminy Creek, near here. $75,000. J. S. Roberts, Jr., 205 Jefferson St. Bristol, engr.

Pa., Turtle Creek—Alleghany Co. (Pittsburgh) making plans 700 ft. steel bridge with aproaches. 24 ft. roadway, 6 ft. sidewalk, over Turtle Creek from Turtle Creek Boro to North Versailles Twp., here. $264,000. W. F. Brown, City-County Bldg., Pittsburgh, engr.

North Carolina — See "Streets and Roads."

Tenn., Maryville—City and Blount Co. making plans rein.-con. viaduct and 2 bridges. $150,000. Blount Co. appropriates $50,000 toward cost. Freeland, Roberts & Co., Independent Life Bldg., Nashville, engrs.

Mich., Belleville — See "Streets and Roads."

Tex., Palestine—See "Streets and Roads."

Calif., Sacramento — See "Streets and Roads."

Ont., Bridgeburg—Toronto, Hamilton & Buffal Ry., Hamilton, plans bridge, probably steel, here. $100,000. H. Malcolmson, supt. Private plans.

Ont., Owen Sound—Grey Co. plans two 10 ft., one 26 ft., one 18 ft., one 20 ft., one 25 ft., two 30 ft. and one 84 ft. rein.-con. bridges, 16-20 ft. roadway. $45,000. R. C. McKnight, engr.

BIDS DESIRED

Pennsylvania—July 1, at office W. C. Irvin, controller Montgomery Co., rein.-con. bridge over Schuylkill River, on DeKalb St. between Norristown and Bridgeport. J. B. Long, 59-61 Beyer Arcade, consult. engr.; adv. E. N.-R. June 12.

Virginia—See "Streets and Roads."

Louisiana—July 2, by State Hy. Comn., Reymond Bldg., Baton Rouge, 53 creosoted pile trestle bridges, Federal Aid Project 127-D, Tangipahon and St. John the Baptist Parishes. J. M. Fourmy, state engr.; adv. E. N.-R. June 12.

Indiana—June 17, by J. D. Williams, dir. Indiana State Highway Comn., Capitol Bldg., Indianapolis, **(r.c.s. means rein.-con. slab, r.c.b. rein.-con. box, s.t. steel truss, r.c.g. rein.-con. girder, r.c.a. rein.-con. arch, p.g. plate girder, and s.t.a.r. steel truss and abutment repairs)**, one 20 ft. and one 16 ft. r.c.s., two 50 ft. r.c.a., in Fountain Co.; one 14 ft. r.c.s., one 4 x 4, and one 8 x 6 ft. r.c.b., one 84 ft. s.t. in Wells Co.; two 28 ft. and one 18 ft. r.c.g., one 18 ft. r.c.s., one 31 x 6 ft. s.t. in Noble Co.; one 84 ft. s.t. in Blackford Co.; one 84 ft. s.t., one 20 ft. and one 14 ft. r.c.s. in Jay Co.; one 20 ft., one 16 ft. and two 12 ft. r.c.s., one 77 x 8 ft. s.t. in Boone Co.; one 30 ft. and one 20 ft. r.c.a. in Monroe Co.; two 18 ft. and one 12 ft. r.c.s. in Jefferson Co.; one 198 ft. s.t. in Gibson Co.; two 40 ft. and one 75 ft. p.g. in Wayne Co.; one 48 ft. s.t.a.r. in Jackson Co.; two 50 ft. r.c.a. in Orange Co.; three 32 ft. r.c.g. in Harrison Co.

Ia., Logan—June 17, by Auditor Logan Co., 3 I-beams, 3 pony trusses, 1 high truss and 10 culverts. To exceed $25,000. T. A. Cherry, co. engr.

Minnesota—See "Streets and Roads."

Minnesota—June 24, by State Hy. Dept., St. Paul, Bridge 4285, 140 ft., and Bridge 4286, 100 ft., both concrete, also raising Bridge 4287, all on State Project 3-45, Sect. 1, Federal Aid Project 363, between Sauk Center and Freeport. $28,000. State Hy. Dept., engrs.

Arkansas—June 16, by State Hy. Comn., Little Rock, steel truss bridge with one 120 ft. and two 25 ft. concrete approaches, over Patarm Creek, Faulkner and Pulaski Counties, 115,950 lb. structural steel, etc. R. C. Limerick, highway engr.

California—June 30, by State Highway Comn., Sacramento, 398 ft. rein.-con. bridge over Truckee River, 21 ft., Nevada Co. R. M. Morton, state highway engr. Noted Apr. 10.

Calif., Bonsall—July 3, by Bd. Supervs. San Diego Co., San Diego, 650 ft. concrete bridge with five 106 ft. arches, over San Luis Rey River, near here. $100,000 to $125,000. E. R. Childs, co. surv. Noted Mar. 20.

BIDS RECEIVED

Mass., Quincy—See "Streets and Roads."

New Jersey—State Hy. Comn., Trenton, June 2, 3 concrete bridges with 14 ft. spans, 30 ft. roadway, and removing 2 existing bridges, on Route 5 Sect. 11 between Belvidere and Delaware, Warren Co., from J. Stem, 88 North 2n dSt., Stroudsburg, Pa., $25,800. Noted May 22.

Pennsylvania—State Dept. Hys., Harrisburg, 11 spans, 1,362 ft. concrete arch bridge over West Branch Susquehanna River, Route 25, Northumberland, Snyder and Union Counties, from Whittaker & Diehl Co., Union Trust Bldg., Harrisburg, $409,580.

O., Milford—Hamilton Co. (Cincinnati), June 6, substructure for 260 ft. steel truss bridge from E. M. Scully, 1431 Eastwood Ave., Columbus, $64,860, engrs. est. $70,500; superstructure incl. 800 cu.yd. 1:2:4 concrete and 1,000 ft. concrete piling, from D. P. Foley, 3209 Boudinot St., Cincinnati, $25,470, engrs. est. $28,300. Noted May 15.

Tex., Alice—See "Streets and Roads."

Wash., Tacoma — Pierce Co., May 23, 103 ft. girder span bridge on concrete piers, etc., over main line of Northern Pacific Railway, from S. C. Erickson, Provident Bldg., $25,675. Engrs. est. $25,000.

Bridges (Continued)

California—State Highway Comn., Sacramento, bridge over Dry Creek near Galt, Sacramento and San Joaquin Counties, new floor, paving, etc. (1) type A wearing surface (2) type B wearing surface, from Davison & Nicolson, 31 South Sutter St., Stockton, (1) $16,436; from M. B. White, Stockton, (2) $15,252; engrs. ests. (1) $24,438 (2) $24,438; bridge over Klamath River, Del Norte Co., from H. E. Doering, 568 Maple St., Portland, Ore., $354,685. Noted May 8.

CONTRACTS AWARDED

Maine—State Hy. Comn., Augusta, Emerson Bridge, 1 concrete clear span, 60 ft., over Miassalonsku Stream, in Waterville, to Greene & Wilson, Waterville, $24,545; Thomas Pond Bridge, one **15 ft. 8 in. con**crete slab and concrete abutment over outlet of Thomas Pond in Casco and Raymond, also one 14 ft. concrete span bridge over Jordan River in Raymond, to E. A. Dekin, Howland, $1,965 and $11,109 respectively. Noted May 28.

Vermont — T. W. Dix, ch. engr. State Hy. Dept., Montpelier, bridge known as Gassetts Overpass, nine 25 ft. and two 75 ft. spans, steel and concrete, Federal Aid Project 54A, in Chester, to Earl & Merry, Rutland, $60,585; one 163 ft. and one 73 ft. steel span bridge on Main St., in Waterbury, Federal Aid Project 61A, to Pittsburg-Des Moines Steel Co., 50 Church St., New York City, $33,711. Noted May 22.

North Carolina — State Hy. Comn., Raleigh, **(S. P. means State Project)** rein.-con. bridge over Deep River at Randleman, S. P. 580-B, Randolph Co., to Dameron & Sparkling, Smithfield; rein.-con. bridges and culverts on S. P. 134, Gates Co., to Gwathmey-Saddler Co., Norfolk, Va., $32,173, S. P. 888, Yancey Co., to Booze, Boyd & Co., R. F. D. 1. Raleigh, $28,707, on S. P. 212, Craven Co., to Pittsburgh-Des Moines Steel Co., Richmond, Va., $45,902, S. P. 422, Franklin Co., to Kuehn, Englehardt & Thorn, Kinston, $34,725. Noted June 5.

North Carolina—See "Streets and Roads."

Ohio—See "Streets and Roads."

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, one 100 ft. steel and nineteen 26 ft. concrete span bridge, 20 ft., over Harpeth River, Federal Aid Project 205, Cheatham Co., to Montgomery & Parker Contg. Co., Rockport, Ind., $62,050. Noted May 1.

Tenn., Nashville—Will repair, etc., bridge over Cumberland River, at Sparkman and Jefferson Sts., by day labor, under supervision of Freeland, Roberts & Co., engrs., Independent Life Bldg. To Nashville Building & Supply Co., Ft. Fatherland, furnishing cement for same $3.02 bbl. incl. cost of testing; to W. T. Hardison & Co., Shelby Ave., sand at $2.30 per ton, gravel at $1.60 per ton; to Wilson Wesner & Co., 177 2nd Ave. N, reinforcing bars at $2.585 lb., to Ryan Sales Co., Stahlman Bldg., expanded metal at $2.55 per 100 sq.ft. Total cost $300,000. Noted May 15.

Michigan — State Hy. Dept., Lansing, Bridge 500404, one 90 ft. through concrete girder, 558 cu.yd. concrete and 94,040 lb steel, to Pittsburgh-Des Moines Steel Co., 659 Book Bldg., Detroit, $27,292.

Michigan — State Hy. Dept. at office Comrs. Chippewa Co., Saulte St. Marie, Bridge 171601, one 60 ft. concrete girder and Bridge 171602, one 28 ft. I beam, 548 cu.yd. concrete, 43,689 lb. steel, etc., to Hill & Belknap, East Tawas, $24,141. Noted May 15.

Minnesota — State Hy. Dept., St. Paul, bridge on State Project 14-23, Federal Aid Project 355, also Bridge 4181, 23 ft., and Bridge 4182, 30 ft., concrete, together with culverts, on State Project 15-30, Div. C, Federal Aid Project 341, to Independent Bridge Co., Metropolitan Life Bldg., Minneapolis, $4,990 and $8,157 respectively; 5 bridges on State Project 64-22, Federal Aid Project 353, 30- to 46-ft. long, to J. H. Atkins, Barnesville, $16,819; 1 bridge on same Project to Crookston Cement Products Co., Crookston, $3,099. Noted May 15.

Minn., Duluth — H. W. Tischer, city comr., 280 ft. concrete bridge 16 ft. over Lester River, to C. R. McLean, 515 South 21st Ave. E., $52,644.

Kan., Minneapolis -- See "Streets and Roads."

Tex., Austin—See "Streets and Roads."

Tex., Clarendon—Donley Co., 312 ft. steel truss bridge with 9 spans, I-beam approaches, two 18 ft. concrete piers, bents, etc., over Salt Fork of Red River, to Austin Bridge Co., 1813 Clarence St., Dallas, $17,958. Engrs. est. $25,000. Noted June 5.

Oklahoma—State Hy. Dept., Oklahoma City, bridges on Wister-Talihina Rd., Federal Aid Project 116-E and F, LeFlore Co., 40,000 lb. fabricated steel, 105,348 lb. reinforcing, 950 cu.yd. 1:2:3 concrete, 1,148 cu.yd. rubble masonry, to Green Beekman Co., 1200 West 11th St., Oklahoma City, $49,509. Engrs. est. $50,000. Noted May 5, under "Streets and Roads."

Calif., Merced—See "Excavation, Drainage, Irrigation."

Calif., Santa Cruz — City, 3 rein.-con. bridges, to W. L. Proctor, Santa Rosa, $29,681.

Dams

PROPOSED WORK

Calif., Los Angeles — Los Angeles Co. Flood Control Dist. making plans Santa Anita Canyon Dam, 225 ft. high, to impound 1,500 acre ft. $585,000. J. W. Reagan, Hall of Records Bldg., engr.

BIDS DESIRED

R. I., Providence — June 25, at office Water Supply Bd. City Hall, concrete dam at Pawtuxet, in Cranston and Warwick. B. T. Potter, chn.; adv. E. N.-R. June 12.

Ariz., Williams—See "Waterworks."

BIDS RECEIVED

Calif., Merced—Merced Irrigation Dist., Exchequer Dam and power-house (1) district to pay contractor for cement supplied by him (2) district to furnish cement to contractor (3) district to furnish cement and aggregates to contractor (a) includes estimates of cost of work necessary to complete dam and power house, such as power equipment, valves and machinery, contracts for which are to be awarded later, from L. S. and G. F. Atkinson, Chapman Bldg., Los Angeles (2) $2,755,003 (2a) $5,451,063 (3) $1,883,557 (3a) $5,428,617; from F. Rolandi, 550 Montgomery St., San Francisco (1) $3,630,408 (1a) $5,341,968 (2) $2,603,408 (2a) $5,286,968 (3) $1,757,128 (3a) $5,302,188; from Utah Constr. Co., Phelan Bldg., San Francisco (3) $1,854,541 (3a) $5,399,609; from Bent Bros., 1714 Eagle St., Los Angeles (1) $3,448,079 (1a) $5,172,139 (2) $2,452,079 (2a) $5,148,139 (3) $1,733,671 (3a) $5,278,731. For 760,000 tons concrete aggregate for dam and power house, 25,000 tons aggregate for railroad and 50,000 tons aggregate for railroad, etc., from Chatham & Wolfsen, Turlock, $0.475 per ton plus freight; from C. R. Adam, Merced, $1.08 per ton f.o.b. Detwiler. Noted May 22.

CONTRACTS AWARDED

Vt., Quechee—A. G. Dewey Co., Dewey Mills, constructing dam, to H. P. Cummings Constr. Co., Ware, Mass., $50,000.

Railways

PROPOSED WORK

Oklahoma—Kansas City Southern Ry. Co., 11th and Wyandotte Sts., Kansas City, Mo., making surveys new line from Watts northwest toward Grove, here. $100,000 or more. A. N. Reece, ch. engr.

Ontario — York Twp., 40 Jarvis St. Toronto, takes bids about June 13, for about 5 mi. electric street railways in Rogers Rd., Dundas St., Oakwood and Eglington Aves. $1,250,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Quebec—Canadian Natl. R.R., Ottawa, Ont., plans about 20 mi. branch line from St. Prosper to Three Rivers. $320,000. A. E. Doucet, Quebec, engr.

BIDS RECEIVED

California—See "Dams" under Merced.

California—Merced Irrigation Dist., Merced, relocating 16.79 mi. Yosemite Valley R.R. from Merced Falls to Detwiler (A) for work under Schedules 1, roadbed, 2, tunnels, 3, trestles, 4, tracklaying, (B) total incl. estimates of costs for remaining work, bridges, etc., from F. Rolandi, 550 Montgomery St., San Francisco, (A) $1,447,681 (B) $3,415,362. Noted May 22.

Excavation, Drainage, Irrigation

PROPOSED WORK

Calif., Richvale — D. D. 100, making plans raising west levee Cherokee canal, 60,000 cu.yd. earthwork. F. F. Robinson, Chico, consult. engr.

BIDS DESIRED

Massachusetts—June 19, by Dept. Pub. Wks., Div Waterways. State House, Boston, dredging about 21,500 cu.yd. in Manchester Harbor. W. F. Williams, comr.

Mo., St. Louis—Stadelin Bros. Co., 823 North 4th St., taking bids 150,000 cu.yd. grading. Bids later on 100,000 cu.yd. additional grading Arsenal St. and Watson Rd. Private plans.

Ark., Texarkana—June 20, by Bd. Comrs. McKinney Bayou D.D. Miller Co., rein.-con. sluiceway containing four 6 x 6 openings. Morgan Eng. Co., Goodwin Institute, Memphis, Tenn., engrs.

Tex., Kaufman—June 28, by J. L. Scales, aud. Kaufman Co. Levee Dist. 4, 1,000,000 cu.yd. excav. in 12 mi. ditch, 80,000 cu.yd. levee repairs, 1,600 ft. timber trestle, two 24 in. centrifugal pumps, oil engines, etc. B. F. Williams, Rosser, engr. $30,000 plus.

BIDS RECEIVED

Mass., Orleans—Dept. Pub. Wks. Div. of Waterbury & Public Lands, State House, Boston, dredging about 44,000 cu.yd. in Nanset Harbor, Town Cove, Namequoit River and Pleasant Bay, here, from W. E. Burke, 28 School St., Boston, $20,252.

New York—R. K. Fuller, comr. Canals & Waterways, 55 Lancaster St., Albany, excavating in canal channel at various locations between Oriskany and Oneida Lake, and constructing settling basin, Nine Mile Creek, Contr. M-2, from Empire State Dredging Co., 233 Bway., New York, $11,080.

New Jersey—State Bd. Commerce & Navigation, Trenton, June 3, dredging beach channel in Little Egg Harbor Bay, Ocean Co., from Delaware Dredging Co., Real Estate Title Bldg., Phila., Pa., $0.248 per cu.yd. Noted May 22.

Wis., Jefferson—J. W. Puerner, secy., Jefferson Co. Farm Drainage Bd. No. 3, May 29, 154,347 cu.yd. earth and 1,395 cu.yd. rock excav., 3,000 lin.ft. 20 in. tile, from C. B. McNamara Constr. Co., 670 Central Ave., Dubuque, Iowa, $51,000. Noted May 22.

CONTRACTS AWARDED

New York—R. K. Fuller, comr. Canals & Waterways, 55 Lancaster St., Albany, to Amer. Pipe & Constr. Co., Amsterdam, furnishing and placing bank protection along Erie Canal, from 1 mile east of Schenectady to Canajoharie, Contr. 221, $106,945, between Canajoharie and Lock 19, Contr. 222, $103,165; to Dunbar & Sullivan Dredging Co., 2212 Dime Bank Bldg., Detroit, Mich., excavating in canal channel at Medina, Lockport and Tonawanda, Contr. M-3, $85,750, excavating tail race for Crescent Power House, etc., Crescent, Contr. A-4, $27,244.

Missouri—Missouri Pacific Ry., Ry. Exch. Bldg., St. Louis, trestle work, filling, etc., on White River division between Crane, Mo., and Yellville, Ark., incl. 200,000 cu.yd. steam shovel work, 1,200 cu.yd. concrete, etc., to List & Gifford, Merchants-Laclede Bldg., St. Louis. Engrs. est. $150,000.

Wash., Olympia—Port Comn., dredging 3,500 ft. channel, 30 ft. deep and 250 ft. wide, turning basin at inner end of channel and filling tidelands, to Tacoma Dredging Co., Tacoma, $144,500.

Calif., Merced—Merced Irrigation Dist., to Merced Concrete Pipe Co., 16th and H Sts., 20 in. concrete pipe $1.14, 30 in. $2.75, 36 in. $3.25, 42 in. $6.50, 48 in. $7, 24 in. concrete culvert $2.75; to J. J. Peters and J. M. Ennis, Merced, about 140,000 ft. lumber in 26 bridges, 12 drops, 15 checks, 38 sidegates, $28. Noted May 22.

Streets and Roads

PROPOSED WORK

Massachusetts — Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans highway known as Northern Traffic Route from Boston to Wellington Bridge in Somerville, via Cambridge. $2,400,000. J. R. Rablin, engr.

Mass., Boston—City Planning Bd., plans widening Kneeland St., from Washington St. to Atlantic Ave. $1,200,000. F. H. Fay, chn.

Mass., Boston—City plans widening Tremont St., from Arlington Sq. to Stuart St., 80 ft. $1,200,000. F. H. Fay, City Hall, chn. Planning Bd.

Mass., Brighton (Boston P. O.)—City of Boston plans widening and improving Faneuil St., here. J. F. Sullivan, secy. Street Laying Out Dept. $300,000.

Mass., Brighton (Boston P. O.)—City of Boston plans constructing of various streets, here. To exceed $25,000. J. F. Sullivan, secy. Street Laying Out Dept., City Hall, Boston.

Mass., Dorchester (Boston P. O.)—City Planning Bd., Boston, plans widening Adams St. between Park St. and Dorchester Ave., here. $100,000. F. H. Fay, chn.

N. Y., Mohawk—Voted $26,000 bonds for paving work.

Streets and Roads (Continued)

N. Y., Utica—Common Council, plans to pave Fairview Heights, Hawthorne Ave., Bacon and Oswego Sts. To exceed $25,000. A. Sisti, Jr., city clk.

N. J., Sayreville—Middlesex Co. (New Brunswick), plans asphalt paving 1.6 mi. Main St., here. M. F. Larson, Perth Amboy, engr.

W. Va., Beckley — Election June 24, $100,000 bonds for paving, sewers and fire equipment. B. H. Ashworth, city recorder.

W. Va., Clarksburg—Harrison Co. voted $47,000 bonds for brick paving 2.5 mi. Guards Residence to Gregorys Run Rd.; $47,500 for 2 mi. Twin Bridges to M. A. Dennisons Farm Rd.; $100,000 for 4 mi. Eagle Dist. line up Ten Mile line Rd.; $95,000 for 4 mi. Coal Dist. line to Catfish Run Rd., all in Sardis Dist. G. L. Coyle, Clarksburg, engr.

North Carolina—State Hy. Comn., Raleigh, rejected bids, grading, etc., 7.265 mi. State Project 891, Yancey Co., $120,000, 11.83 mi. State Projects 111 and 117, Camden and Currituck Counties, $66,800; grading and concrete or asphaltic paving 13.392 mi. State Project 791-B, Yadkin Co., $448,600. Will readvertise. C. M. Upham, Raleigh, highway engr. Noted June 5.

North Carolina—State Hy. Comn., Raleigh **(S. P. means State Project)**, making plans soon takes bids concrete or asphaltic paving 9 mi. S. P. 147-B, Hertfort and Bertie Counties, $260,000, 16.5 mi. S. P. 763-B, Surry Co., $295,000; grading and waterbound macadam paving 9.9 mi. S. P. 646-B, $150,000, and 5 mi. S. P. 648-B, $75,000, both Lincoln Co.; 8.7 mi. waterbound macadam on old Project 963, S. P. 967, Macon Co., $90,000; grading and rein.-con. bridging 9 mi. S. P. 900, Buncombe Co., $60,000, 10.8 mi. S. P. 265, $75,000, and 7.2 mi. S. P. 266, $50,000, both Pamlico Co., 13.7 mi. S. P. 433, Granville Co., $95,000, 9.2 mi. S. P. 474, Vance Co., $60,000. C. M. Upham, highway engr.

N. C., Edenton—Had plans prepared asphaltic paving on concrete various streets. $35,000. Drane & Smith, Charlotte, engrs.

Fla., Hillcrest Heights (Babson Park P. O.)—Making plans paving 2 mi. Poinella, Palm, Catherine and Oak Sts., 24 ft., bituminous wearing surfacing on 6 in. clay or limestone rock. $31,000. J. W. Turner, Lakeland, engr.

Fla., Kissimmee—Election June 28, $75,500 bonds improving various streets. Total cost $226,500. Probably Ramsey & Herndon, Kissimmee, engrs.

Fla., Tampa—Hillsborough Co. making plans paving about 5 mi. streets in Virginia Park, 24 ft., sheet asphalt on 6 in. compressed rock. A. B. Primm, Courthouse, engr.

Miss., Quitman—Plans election to vote on $100,000 bonds graveling 30 mi. roads, 18 ft. F. C. Dietzer, Jackson, engr.

La., Shreveport — See "Floating Equipment, etc.," under "Unclassified."

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, takes bids about July 2, grading approximately 12 mi. Huntingdon-Jackson-McLemoresville Rd., 18 ft., Carroll Co. incl. several rein.-con. bridges. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys grading, etc., approximately 10 mi. Milan-Weakley Co. line Rd., Gibson Co. J. G. Creveling, highway comr.

Tenn., Milan — Plans paving various streets. $150,000 to $200,000. Engineer not selected.

Tenn., Nashville—June 20, by Bd. Pub. Wks., surfacing Maxwell House Alley and Belcourt Ave., granite block, Villa St., 28th and Shelby Aves., asphaltic concrete, Villa and Bate Sts., Capers, 25th and 28th Aves., cement concrete, sidewalks on Vanderbilt Pl., Belcourt, 12th and 18th Sts.; grading and asphalt paving Bates, Capers, 16th and Shelby Aves. W. W. Southgate, city engr. Noted Feb. 21.

Kentucky—State Hy. Dept., Frankfort, plans reconstructing and surfacing Owensboro-Dixon Rd., Smith Panther Creek-Pleasant Ridge Rd., Owensboro-Browns Valley Rd., Daviess Co.; reconstructing 7 mi. Bardstown-Lawrenceburg Rd., State Project 18, and 6 mi. Bardstown-New Haven Rd., both 18 ft., State Project 3, Nelson Co.; grading 4 mi. Greensburg-Columbia Rd., 24 and 28 ft., Green Co., 5.5 mi. Danville-Stamford Rd., 24 and 28 ft., State Project 22, Lincoln Co., 18 mi. Tomkinsville-Allen Co. line Rd., 24 and 28 ft., State Project 37, Monroe Co., Jeff-Knott Co. line Rd., Perry Co.; paving 5.6 mi. Greensburg-Summerville Rd., 18 ft., Green Co. J. S. Boggs, highway engr.

Ky., Henderson—Plans paving and oiling various streets. $50,000. C. F. Hall, mayor.

O., Zanesville — Muskingum Co. soon takes bids improving 4 mi. East Fultonham-Philo Rd., 20 ft., macadam. $80,000.

O., Zanesville—Comrs. Muskingum Co. take bids in July, improving 3.92 mi. Philo Rd., 20 ft., probably concrete. $120,000. Federal Aid to appropriate $55,000 and State $45,000 towards cost.

Ind., Bluffton—Wells Co. plans grading and graveling 2.7 mi. Bowman Rd., 20 ft. $28,751. C. Davenport, engr.

Ind., Brownstown—Plans concrete paving 6,714 sq.yd. Walnut St. $28,849. Address city engineer.

Ind., Crown Point—Lake Co., plans concrete paving 62,154 sq.yd. Gleason Rd., $162,000, 108,190 sq.yd. Simpson Rd., $280,500; grading and graveling 2 mi. Bothwell Rd., 20 ft., $26,700. C. K. Wallace, Crown Point, engr.

Ind., Elkhart — Plans hard surfacing 0.75 mi. Kilbourn St., 30 ft. $27,500.

Michigan — State Hy. Dept., at office Comrs. Washtenaw Co., Ann Arbor, takes new bids about June 23, grading and surfacing 0.52 mi. State Trunk Line Rd. 92-2, 3,763 cu.yd. excav., 6,882 sq.yd. concrete, bituminous concrete or sheet asphalt. G. C. Dillman, Lansing, ch. engr. Former bids rejected. Noted June 5.

Michigan — State Hy. Dept., Lansing, plans grading and surfacing 0.498 mi. State Trunk Line Rd. 71-1, Shiawassee Co., 5,196 cu.yd. excav., 5,860 sq.yd. concrete. G. C. Dillman, ch. engr.

Mich., Belleville—Made plans 25,000 cu. yd. embankment, highway fill and concrete abutments for bridge, incl. about 265 cu. yd. rein.-con., 75 piles 15 to 25 ft. long, and road for Detroit Edison Co. No. 1. $25,000. G. S. Williams, Cornwell Bldg., East Huron St., Ann Arbor, engr.

Mich., Detroit—Making plans paving with 3½ in. sheet asphalt on 8 in. concrete 2,900 sq.yd. Livernois Ave. $17,530, 3,800 sq.yd. Renville Ave. $22,460, 6,200 sq.yd. Main St. Sect. 1, $36,770, 4,100 sq.yd. Devereaux Ave. $24,440, 2,050 sq.yd. Beechton Ave. $12,260, 1,980 sq.yd. Carrie Ave. $11,880, 6,900 sq.yd. Cloverlawn Ave. $47,350, 6,900 sq.yd. Roselawn Ave. $47,350, 6,900 sq.yd. Northlawn Ave., $47,350, 11,200 sq.yd. Schoolcraft Ave. $67,160, 3,800 sq.yd. Marion Ave. $22,360, 5,700 sq.yd. Lakepointe Ave. $34,130, 3,400 sq.yd. Lawton Ave. $20,510, paving with one course 6 in. concrete 3,750 sq.yd. in 3 alleys $11,010. G. Jerome, city engr.

Mich., River Rouge—Making plans paving approximately 29,000 sq.yd. Polk, Stoner and Alexander Aves., one course 7 in. concrete. $120,000. M. L. Brown & Son, 403 Capitol Bldg., Detroit, engr.

Ill., Chicago — Voted $10,000,000 bonds improving South Water St., $1,000,000 Roosevelt Rd., and $1,000,000 South Park Ave.

Ill., Morton—Making plans street paving which will widen Route 9 from Bloomington to Peoria, to width 32 ft. to 53 ft., in town. State will pay for 18 ft. of pavement. $100,000. Holbrook, Warren & Van Praag, Decatur, engrs.

Wis., Hudson—Plans paving about 12,000 sq.yd. Vine St. between 2nd and 9th Sts., during 1925. $30,000. L. P. Wolff, 90-3 Globe Bldg., St. Paul, Minn., engr.

Kan., Arkansas City—Soon takes bids grading and surfacing with 3 in. vertical fibre brick on 4 in. concrete and 1.5 in. sand cushion 12 blocks Washington, Adams, Van Buren, Jefferson, Monroe and Quincy streets.

Kan., Holton—Jackson Co. plans grading 6.25 mi. Federal Aid Project 251-A, 28 ft. $25,000. Western Eng. Co., Topeka, engrs.

Kan., Lawrence—Plans grading and concrete surfacing 3,900 ft. 19th and Massachusetts Sts., etc., 16 to 30 ft., and 600 ft. alley, 16 ft.

Kan., Minneapolis — Ottawa Co. soon takes bids grading, etc., 3.5 mi. Meridian Highway south of Bennington, 18 ft. L. B. Miller, Minneapolis, engr.

Kan., Olathe—Johnson Co. plans grading and surfacing 2.755 mi. Federal Aid Project 238-B, 18 ft.; with concrete or brick 6.267 mi. Federal Aid Project 238-D, 18 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., engr.

Kan., Osborne—Osborne Co. plans grading and surfacing with feather edge gravel, 4.273 mi. Federal Aid Project 170-B, 18 ft. E. E. Clark, co. engr.

Kan., Wichita—Plans curbing, guttering and paving Litchfield, Shirk, Wichita, Volustia, Morris, Roosevelt, Chautauqua and Lincoln Sts., concrete; Willow, Mentor, East and Pine Sts., asphaltic concrete; 3rd St., vitr. brick, Victor and Vassar Sts., sheet asphalt. P. L. Brockway, city engr.

Neb., Omaha—Plans to widen Lake St. to Cuming St. $94,000. H. Beal, City Hall, engr.

Neb., Wisner—Plans paving 12 blocks various streets. $40,000. Engineer not selected.

Missouri—State Hy. Dept., Jefferson City, plans grading 40.185 mi. roads, 34 ft., in Bates, Audrain, Bartow and Jefferson Counties, 59.474 mi. roads 30 ft. in Dade, Pettis, Worth, Douglas, Reynolds, Cape Girardeau, St. Francois and De Kalb Counties; gravel surfacing 9 mi. roads 12 ft. in Gasconade and Douglas Counties. B. H. Piepmeier, ch. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, had preliminary plans prepared readjusting and replacing granite curbing where necessary and paving with asphalt, willite or warrenite on concrete Lindell Blvd., $200,600-$216,000, Kingshighway $94,700-$100,400, Eastgate St. $6,900-$7,200, Denvonshire St. $12,900-$13,600, Rosedale St. $18,800-$19,500, 9th St. $13,900-$19,400, 10th St. $12,200-$16,900, 11th St. $12,500-$17,500, Goodfellow St. $59,300-$72,800; grading and paving with concrete, vitr. brick, Kentucky rock asphalt, asphaltic concrete, warrenite, asphalt or willite on concrete, Montana St. $13,253-$17,550, Elmbank St. $18,800-$21,550. W. W. Horner, city engr.

Ark., Conway—Making preliminary plans grading and concrete surfacing 3 mi. College, Donaghy, Locust, East Main and Oak Sts., 18 to 30 ft.

Ark., Lake Village—Chicot Co. making preliminary plans grading and gravel surfacing 4 mi. Lake Route Rd. $40,000. Federal, State, etc., to appropriate toward cost. H. E. Cook, co. judge.

Tex., Amarillo—Potter Co. making plans grading and rein.-con. paving 1.04 mi. State Highway 33, 18 ft. $36,000. O. A. Seward, co. engr.

Tex., Anson—Jones Co. voted $100,000 bonds hard surfacing roads in Dist. 18-B, to supplement $200,000 bonds voted March 1. Address J. F. Lindsey, co. judge. Noted Mar. 13.

Tex., Boston—Bowie Co. voted $490,000 bonds hard type pavement on all highways in Precinct 1. J. B. Pirkey, co. judge.

Tex., Bryan — Plans standard paving various streets. $45,000. E. E. McAdams, Bryan, engr.

Tex., Centerville—Leon Co. election June 16, $140,000 bonds highway improvements in Rd. Dist. 6. W. D. Lacey, co. judge.

Tex., Chillicothe—Making plans permanent paving 4 blocks business streets, about 60 ft. $28,000. J. B. Nabors, Vernon, engr.

Tex., Coleman—Coleman Co. Precinct 1, defeated $100,000 bonds, graveling 12 mi. State Highway 7-A, 16 ft. W. E. Dickerson, co. engr. Noted Apr. 24.

Tex., Galveston—Election soon $350,000 bonds street paving and repairs. C. A. Holt, Jr., city engr.

Tex., Jourdanton—Atascosa Co. election June 21, $300,000 bonds highway construction. E. D. Scott, co. judge.

Tex., Marlin—Falls Co. voted $115,000 bonds grading and gravel surfacing 9 mi. Road Dist. 6, 16 ft. J. P. Wehrung, co. engr. Noted May 8

Tex., Munday—Knox Co. making plans paving 6 blocks Ernest St., 3 in. vertical fibre brick on 7 in. concrete. $25,000. Montgomery & Ward, 1016 City Natl. Bank Bldg., engrs.

Tex., Olney—Making plans standard paving 6 blocks various streets. $25,000. Montgomery & Ward, City Natl. Bank Bldg., Wichita Falls, engrs.

Tex., Palestine — Anderson Co. making plans grading, rein.-con., surfacing and bridging 10.7 mi. State Highway 43, east from here, 18 ft. $384,000. E. W. Davis, co. engr.

Tex., Port Arthur—Attorney General approved $170,000 bonds gravel and shell paving streets, $289,600 bonds asphalt paving streets. J. P. Logan, mayor.

Tex., Sweetwater—Nolan Co. takes bids after June 23, improving 15.5 mi. road between here and Mitchell Co. line, 18 ft., bituminous on macadam. $300,000. J. A. Focht, co. engr. Noted June 5.

Tex., Temple—Election June 28, $50,000 bonds permanent paving various streets. Total $200,000. M. Ramsay, Marshall, engr.

Okla., Kenton—Cimarron Co. plans grading 17 mi. Kenton-Mexhoma Rd., 18 ft.

Oka., McAlester—Plans grading and paving 6 blocks Jackson and Monroe Aves., 24 ft., 7,100 sq.yd. concrete. $28,000. F. Frazier, McAlester, engr.

Okla., Oklahoma City — Plans grading and paving 11 blocks 6th, Stonewall, Everst and Foushell Sts., 6,100 sq.yd. asphalt, 2,700 sq.yd. concrete, 6,100 lin.ft. curbing, 3,000 cu.yd. excav. $41,000. B. M. Hart, City Hall, engr.

Streets and Roads (Continued)

Okla., Sapulpa—Plans grading, curbing and paving 7 blocks Impvt. Dists. 70 and 71, 8,000 sq.yd. concrete. $35,000. F. E. Lawrence, Sapulpa, engr.

Calif., Berkeley—Plans paving Spruce St., Euclid and Arlington Aves., etc., concrete. To exceed $25,000. J. N. Eddy, city mgr.

Calif., Fresno—Fresno Co. plans highway from Sierras to Sea Highway. $100,000. C. P. Jensen, Cory Bldg., co. surv.

Calif., Los Angeles—Had plans prepared improving Division St. between Wollam St. and San Fernando Rd., 18,375 sq.ft. concrete, 138,897 sq.ft. 1½ in. on 3½ in. warrenite-bituminous, 8,267 ft. curb, 38,444 sq. ft. walks, 8,599 sq.ft. gutter, etc.; Sale Ave. between Ventura St. and San Luis Ave., 47,250 cu.yd. cut, 8,670 cu.yd. fill, 2,932 ft. heavy curb, 23,145 ft. light curb, 69,859 sq.ft. walks, ornamental lighting system, etc.; Soto St. between Medford and Griffin Sts., 9,581 sq.ft. 5 in. bituminous, 31,513 sq.ft. 6 in. concrete, 14,766 sq.ft. oil and roll, 6,755 ft. curb, 20,119 sq.ft. walks, 6,401 sq.ft. gutter, etc. J. A. Griffin, city engr.

Calif., Los Angeles—Los Angeles Co. had plans prepared improving Hawthorne Ave. between Inglewood and Hawthorne city limits, 8,790 cu.yd. excav., shaping 21,565 sq.yd., 21,565 sq.yd. concrete, shaping 7,991 ft. shoulders; Hardy St. between Hawthorne and Prairie Aves., 4,289 cu.yd. excav., 11,964 sq.ft. gutter, 3,258 ft. curb, 13,126 sq.ft. walks, 9,116 sq.yd. Natl. pavement, 9,118 sq.yd. asphaltic concrete base; 2.45 mi. Washington Blvd. between Culber and Venice, 33,080 cu.yd. excav., incl. removing old macadam, walks, curbs, etc., 57,578 sq.yd. sub-base, 86,430 sq.yd. 7- to 9-in. concrete, 80 ft. wide. Each project to exceed $25,000.

Calif., Los Gatos—Had plans prepared improving portion Bway., 35,000 sq.ft. 5 in. concrete, 35,000 sq.ft. grading. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Calif., Sacramento—Sacramento Co. making plans constructing approximately 12 mi. Sherman Island Rd., incl. bridge over 3 mi. slough between Brannan and Sherman Islands. $500,000. C. W. Deterding, Jr., co. engr.

Quebec—Provincial Government, Quebec, takes bids in June or July 12 mi. bituminous macadam on Three Rivers-Grand Mere Rd. from River Caché to Grandmere, 20 ft. $40,000. A. Fraser, Quebec, engr.

Que., Quebec—Election June 5 to 7, $100,000 bonds for widening or enlarging Cote Abraham. L. T. Tremblay, city engr.

Que., Three Rivers—Takes bids in June, 3 mi. concrete paving St. Paul, Bonaventure, St. Marie, Hart, Champlain, Alexander, St. Joseph and St. Olivier Sts., 40 ft. $143,127. C. Gelinas, city engr.

Ont., Ft. William—Plans 25,000 lin.ft. concrete sidewalks on various streets. $35,000. C. B. Symes, City Hall, engr.

Ont., Hamilton—Soon takes bids asphalt paving 16,000 sq.yd. Victoria and Houghton Aves., Dundurn and Cannon Sts., concrete sidewalks on Roxborough Ave. and Cannon St., grading High St., concrete curbing Sline St., $100,000; paving 7,000 sq.yd. Ottawa St. S., Rosthay, Sherman and Dunsmure Aves., asphalt on concrete, $30,000. W. L. McFaul, city engr.

Ont., Hamilton—Wentworth Co. plans to spend $150,000 on county roads for maintenance and new concrete, gravel and macadam roads this year. H. A. Lumsden, Court House, engr.

Ont. Mimica—Plans 4,000 sq.yd. Warrenite bitulithic pavement on Superior Ave., concrete sidewalks on Newcastle St., Queens, Primrose, Hillsdale, Superior and Hay Aves. $30,000.

Ont., Niagara Falls—Soon takes bids paving Morrisson St. $31,791, McCrae St. $28,861, and Queen St. $27,270. Work involves 18,000 sq.yd. asphalt on concrete. T. S. Scott, City Hall, engr.

Ont., Ottawa—Making plans improving Clarence St. $20,000, Augusta St. $20,000, New St. $19,000, The Circle $11,000. Work involves 15,000 sq.yd. asphalt or concrete, etc. A. F. Macallum, City Hall, engr.

Ont., Owen Sound—Grey Co. plans to expend $140,000 for 16,000 sq.yd. concrete and gravel roads, concrete and pipe culverts, etc. Tenders will be called on part of work and balance will be done by day labor. J. Johnson, County Bldg., supt.

Ont., Sandwich—Essex Co. soon takes bids 22,000 sq.yd. rein.-con. paving Front Rd. $60,000. J. J. Newman, Davis Blk. Windsor, engr.

Ont., Toronto—Plans asphalt paving on concrete, Pine Ave. $10,159, Strathmore Blvd. $6,213, Burnfield Ave. $5,651, Wolverleigh Blvd. $12,811, Dundas St. $47,806, Orchard Park Blvd. $14,197, West Toronto St. $21,602, Blackmore St. $1,461; bitulithic on concrete on St. Helens Ave. $17,239, Simpson Ave. $15,733; concrete pavements on Imperial St. $6,853, lane west of Ossington Ave. $16,262, lane north of College St. $27,028; macadam roadway on Harriett St. $3,214, concrete sidewalks on Bathurst St. $506, Duplex Ave. $3,041, Davenport Rd. $844, Patricia Dr. $4,626, King St. W. $1,432, Clendenam Ave. $3,059, St. Germain Ave. $3,564, Harriett St. $2,819, Old Orchard Grove $4,314, Roxton Rd. $1,292; concrete curbs and gutters Woodbine Ave. $254, Pine Ave. $546, Lightbourne Ave. $329, St. Clair Ave. $3,332, West Toronto St., $1,810; grading Strathmore Blvd. $1,837, Wolverleigh Blvd. $2,593, lane between Concord and Delaware Aves. $12,250, lane between McMaster and McPherson Aves. $7,100, Harriett St. $1,896. R. C. Harris, city engr

BIDS DESIRED

New York—June 20, by A. W. Brandt, comr. highways, Albany, constructing, completing and reconstructing highways in Broome, Essex, Greene, Jefferson, Monroe, Oneida, Ontario, Orange, Schenectady, Warren, Wayne, Steuben and Franklin Counties; adv. E. N.-R. June 12.

New York—June 26, by Bronx Parkway Comn., 72 West Pondfield Rd., Bronxville, paving Bronx River Parkway Dr. between Main St., White Plains, and the railroad crossing south of Valhalla. J. Downer, engr. and secy.; adv. E. N.-R. June 12.

N. Y., Brooklyn—June 18, by E. Riegelmann, boro. pres., Boro. Hall, reconcreting openings in asphalt pavements in various streets.

N. Y., Long Island City—June 16, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading Van Alst Ave. and 147th Pl., paving Van Alst Ave., 85th Rd., 101st and 87 Sts., grading, curbing, etc. 87th St., Woodside, 4th and 6th Aves.

N. Y., New York—June 18, by J. Miller, pres. Manhattan Boro., Municipal Bldg., repaving New Chambers St., granite block on concrete.

N. Y., Olean—June 19, by Comrs. Pub. Wks., at office G. R. Miles, city engr., paving and improving South Union St.; adv. E. N.-R. June 12.

N. Y., Williamsville—June 30, by Town Bd. of Amherst, Village Hall, Williamsville, paving and laying sewers in Sheridan Dr. G. C. Diehl, 577 Ellicott Sq., Buffalo, civil engr.; adv. E. N.-R. June 12.

N. J., Maple Shade—June 17, by Chester Twp. Comn., P. S. 2, grading and surfacing roads, 23,250 cu.yd. excav., 33,100 sq.yd. cinder surface. Remington & Vosbury, 509 Cooper St., Camden, engrs.

Pennsylvania—July 1, by State Dept. Hys., Harrisburg, constructing 74 mi. 13 projects in 13 counties. P. D. Wright, secy. highways; adv. E. N.-R. June 12.

Pa., Chest Springs—Boro Council taking bids and opens same about July 2, constructing 3,700 ft. Chest Springs Boro Rd., rein.-con. or brick on concrete. $31,000.

Pa., Kingston—June 23, by Boro Council, Boro Bldg., paving, curbing, guttering and sewers in various streets. C. H. Blochberger, secy.; adv. E. N.-R. June 12.

Delaware—June 25, by State Hy. Dept., Dover, constructing 0.25 mi. Contr. 26A, 3.48 mi. Contr. CK-19, 3.8 mi. Contr. CK-23, 3.88 mi. Contr. CS-32, etc.; adv. E. N.-R. June 12.

Maryland—June 17, by State Rds. Comn., Baltimore, macadam resurfacing 3.36 mi. in Allegany Co., Contr. A-29; concrete paving 3.6 mi. in Dorchester Co., Contr. D-39 and 1 mi. in Worcester Co., Contr. Wo-34; gravel surfacing 1.03 mi. in Prince George Co., Contr. P-46, and 3 mi. in Calvert Co., Contr. C-17. J. N. Mackall, chn.; adv. E. N.-R. June 12.

Md., Baltimore—June 18, by Bd. Awards, 9,050 sq.yd. cement concrete paving, Contr. 259-NA. R. K. Compton, 214 East Lexington St., chn. paving comn.

Virginia—June 26, by State Hy. Comn., Richmond, constructing roads and bridges in the following Projects: F-132-A, 142-C, 146-B, all Route 10, F-145-B, Route 35, F-184, Route 32, F-280, Route 34, F-310-C, Route 12, S-323-A, Route 20. C. S. Mullen, ch. engr. Adv. E. N.-R. June 12.

W. Va., Clarksburg—June 17, by city at office of D. H. Hamrick, city clk., improving Hogans Lane, Parrill Court, Hickman, Simpson, North 14th, Marshall, Sumner, Webster and Wilson Sts., Hamil, Virginia, Lynn, Goff, and Buena Vista Aves., also storm and sanitary sewers in Glen Elk 2, Sect. A, 14,130 lin.ft. curb, 3,600 sq.yd. grading, 3,000 cu.yd. rein.-con. paving, 8 manholes, 15 inlets, 1,000 ft. 10- to 24-in. vitr. sewer pipe. Noted Feb. 14.

W. Va., Union—June 16, by State Rd. Comn., and Monroe Co. Court at Court House, paving and bituminous macadam surfacing 2.2 mi. Alderson-Wolf Creek Rd. S. Clark, co. clk.

W. Va., Wheeling—June 30, by Bd. Dirs. Oakmont Impvt. Co., 703 National Bank Bldg., rein.-con. paving, curbing, sidewalks, sewers and water mains at Oakmont, 10th Ward. Conrad & Pugh, Wheeling, engrs.; adv. E. N.-R. June 12.

N. C., Old Fort—June 23, by J. B. Johnson, mayor, 10,000 sq.yd. concrete or asphaltic street paving, 3,000 sq.yd. sidewalk, curbs, etc. $35,000. R. L. Greenlee, Old Fort, engr.

S. C., Greenville—June 17, at office Supervisor Greenville Co., grading and surfacing 1.2 mi. Lower Easley Rd., Judson Mill Project, 7,544 cu.yd. common excav., 13,397 sq.yd. plain cement surfacing or 12,154 sq.yd. bituminous concrete surfacing, etc. E. D. Sloan, Jr., Court House, engr.

S. C., Lexington—June 17, at office Bd. Comrs. Lexington Co., grading and surfacing 14.2 mi. State Route 6, State Project S-519, 114,119 cu.yd. common and 1,070 cu.yd. rock excav., 44,620 cu.yd. topsoiling, etc. State Highway Engineer, 1600 Main St., Columbia, engr.

Tennessee—June 20, by J. G. Creveling, highway comr., Nashville, improving roads in Coffee, Marion, Warren, Grundy, Gibson, Madison, Obion and Tipton Counties. This corrects report in June 5th issue.

O., Cleveland—June 23, by Bd. Educ., grading, walks, masonry, etc., at Sackett School. To exceed $25,000. W. R. McCormack, East 6th St. and St. Clair Ave., engr.

O., Cleveland Heights (Warrensville P. O.)—June 16, by H. H. Canfield, city mgr., at City Hall, Mayfield Rd., or at office of F. A. Pease, city engr., 806 Marshall Bldg., Cleveland, grading, curbing and paving with brick, bituminous macadam, asphaltic concrete, or sheet asphalt, Blanche Ave., Spangler, Lownesdale, Selwyn, Bainbridge and Berkeley Rds.

O., Massillon—June 17, paving 6,700 sq. yd. Green St.; resurfacing 3,900 sq.yd. Main St., sheet asphalt; sidewalks and grading 6,400 lin.ft. 6th, 3rd, Terrace and Rose Sts.; 1,100 lin.ft. 8 in. sanitary sewer in Cherry St.; 1,700 lin.ft. 36- to 20-in. storm sewer in Green St. C. E. Rice, city engr.

Michigan—June 17, by State Hy. Dept. at office Comrs. Alpena Co., Alpena, grading and surfacing 1.235 mi. State Trunk Line Rd. 10-18, C, 20 ft., 5,261 cu.yd. excav., 14,467 sq.yd. concrete, 1.235 mi. same road, over 20 ft., 10,070 lin.ft. storm sewer, 12,966 lin.ft. curb and gutter, 5,247 sq.yd. concrete, etc.; 2.105 mi. State Trunk Line Rd. 10-18, Sect. B, 15,222 cu.yd. excav., 24,658 sq.yd. concrete, etc. G. C. Dillman, Lansing, ch. engr.

Michigan—June 17, by State Hy. Dept. at office Comrs. Alpena Co., Alpena, grading and surfacing 0.38 mi. State Trunk Line Rd. 10-18, D, 1,572 cu.yd. excav., 384 sq.yd. concrete, also one 27 ft. T beam bridge. G. C. Dillman, Lansing, ch. engr.

Michigan—June 18, by State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and surfacing 7.618 mi. State Trunk Line Rd. 39-11, A and B, 4,368 cu.yd. excav., 80,890 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—June 19, by State Hy. Dept. at office Comrs. Tuscola Co., Caro grading and surfacing 0.99 mi. State Trunk Line Rd. 81-5, 2,576 cu.yd. excav., 11,574 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—June 19, by State Hy. Dept. at office Comrs. Wayne Co., Detroit, grading and surfacing 0.861 mi. State Trunk Line Rd. 17-17, 5,723 cu.yd. excav., 11,287 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—June 19, by State Hy. Dept. at office Comrs. Jackson Co., Jackson, grading and concrete paving 1.988 mi. State Trunk Line Rd. 14-40, 14,141 cu.yd. excav., 23,331 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—June 24, by State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing 1.06 mi. State Trunk Line Rd. 53-10, 9,789 cu.yd. excav., 18,042 sq.yd. concrete, bituminous concrete or sheet asphalt. G. C. Dillman, Lansing, ch. engr.

Michigan—June 24, by State Highway Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing 0.845 mi. State Trunk Line Rd. 21-21, 9,426 cu.yd. excav., 19,498 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Ill., Elmhurst—June 16, by City Clerk, grading, concrete curbing and guttering and penetration macadam surfacing 2nd St., etc. $170,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., La Grange—June 16, by City Clerk, grading, concrete curbing and guttering and surfacing various streets. $25,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Streets and Roads (Continued)

Ia., Des Moines—June 18, by Auditor Polk Co., concrete paving approximately 50,000 sq.yd. road east of Altoona. $150,000. **F. O. Laing, co. engr.**

Ia., Logan—June 17, by Auditor Harrison Co., grading, etc., 9.69 mi. Woodbine-Dunlap Rd. $60,000. T. A. Cherry, co. engr.

Minnesota—June 24, by State Hy. Dept., St. Paul, **(SP means State Project, FAP means Federal Aid Project)**, grading 86,000 cu.yd. SP 2-24, Div. C, FAP 129, $40,000, 181,000 cu.yd. SP 2-32, Sect. 1, FAP 348, also Bridge 4224, 50 ft., and Bridge 4225, 75 ft., $65,000; 64,000 cu.yd. Sect. 1, 171,000 cu.yd. Sect. 2, and 193,000 cu.yd. Sect. 3, also Bridge 4186, 130 ft., Bridge 4187, 60 ft., and Bridge 4188, 60 ft., SP 4-29, FAP 342, 270,000 cu.yd. SP 6-31, FAP 343, also Bridge 4234, 140 ft., Bridge 4233, 30 ft., Bridge 4234, 30 ft., and Bridge 4235, 140 ft., $100,000, 173,000 cu.yd. SP 6-42, FAP 343, one 30 ft. bridge and widening 5 bridges, $90,000, 120,000 cu.yd. SP 7-36, FAP 365, $35,000, 150,000 cu.yd. SP 10-51, FAP 361, also Bridge 4258, 100 ft., and Bridge 4259, 20 ft., $70,000, 101,000 cu.yd. SP 13-21, Sect. 1, FAP 346, $35,000, 197,000 cu.yd. SP 37-21, FAP 334, also Bridge 4295, 40 ft., $50,000; paving 42,640 sq.yd. in Red Wing and 33,400 sq.yd. in Lake City, SP 3-31, FAP 283, $200,000; gravel surfacing 7,200 cu.yd. SP 7-20, FAP 247, $25,000, 24,160 cu.yd. SP 13-02, FAP 285, $42,000, 20,160 cu.yd. SP 13-01, FAP 294, $30,000; 24,160 cu.yd. SP 20-24, FAP 253, and SP 20-25, FAP 250, $43,000, 34,400 cu.yd. SP 22-24, FAP 254, $55,000; 18,240 cu.yd. SP 30-01, FAP 271, and SP 30-27, $36,000, 12,300 cu.yd. SP 49-21, FAP 279, $30,000. State Hy. Dept., engrs.

Minn., Rochester—June 17, by A. F. Wright, city clk., improving 14th Ave. S. W., 1,271 sq.yd. vertical fibre cut vitr. brick, 894 lin.ft. combined curb and gutter, $5,670; 7th St. S. W., 2,718 lin.ft. combined curb and gutter, 4,519 sq.yd. various types paving, 12,000 lin.ft. combined curb and gutter on various streets, $10,000.

Kan., Olathe—July 10, by Clerk Johnson Co., grading and concrete surfacing 4.02 mi. Federal Aid Project 246-A, 18 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, engrs. Noted May 22.

N. D., Carson—June 19, by E. A. Holritz, aud. Grant Co., improving 5.157 mi. Federal Aid Project 63, 41,745 cu.yd. earth and 810 cu.yd. rock excav., 3,218 cu.yd. overhaul, 1,182 ft. 18- to 36-in. corrugated metal or concrete pipe culverts; 20,102 lbs. metal reinforcing, etc.; Federal Aid Project 256A, 46,340 cu.yd. earth and 837 cu.yd. rock excav., 11,234 cu.yd. overhaul, 1,126 lin.ft. of 18- and 24-in. corrugated metal or concrete pipe culverts; 21,851 lbs. metal reinforcing, etc. $42,000.

N. D., Rolla—June 20, by J. H. Penny, aud. Rolette Co., grading, etc., 7.094 mi. Federal Aid Project 242, 59,411 cu.yd. earth and 1,185 cu.yd. rock excav., 1,352 lin.ft. 18, 24 and 30 in. corrugated metal or concrete pipe culvert, 5,367 lb. metal reinforcing, etc. $27,000.

Mo., Charleston—June 17, by Bd. Comrs., Pinhook Rd. Dist. of Mississippi Co. at office Swank-Tanner Eng. Co., grading and constructing two course gravel road. C. Percefull, secy.; adv. E. N.-R. June 5.

Mo., Clayton—June 18, by R. Jablouski, engr. St. Louis Co., Court House, grading and paving with asphaltic penetration macadam 5,737 ft. Parker Rd., 14 ft., $25,000.

Ark., El Dorado—June 16, by L. E. Martin, secy. Impvt. Dist. 18, Court House, 8,000 cu.yd. excav., 11,000 ft. concrete curb, 19,243 sq.yd. concrete paving, 19,243 sq. yd. reinforcing mesh, 6,000 lin.ft. expansion joints, 1,675 ft. 15 and 18 in. storm sewers, 6,500 lb. cast iron, 20,000 lb. reinforcing and 250 cu.yd. concrete; by G. R. Crosley, secy. Impvt. Dist. 19, Court House, 9,083 cu.yd. excav., 14,312 lin.ft. concrete curb, 24,797 sq.yd. concrete paving and reinforced mesh, 4,078 ft. 15- to 24-in. storm sewers, 27,300 lb. reinforcing, 13,670 lb. cast iron, 7,180 ft. expansion joint and 273 cu.yd. concrete; by T. N. Chipman, secy. Impvt. Dist. 20, Court House, 2,126 cu.yd. excav., 1,448 lin.ft. concrete curb, 2,944 sq.yd. concrete paving and reinforced mesh, 950 lin.ft. expansion joint, 960 lb. cast iron, 485 lin.ft 15-in. storm sewer. Ford & MacCrea, 215 Gazette Bldg., Little Rock, engrs.

Tex., Angleton—July 2, by J. T. Loggins, judge Brazoria Co. surfacing State Highway 19, State Aid Project 432-C, 9,805 cu.yd. shell. $25,956. E. W. Gustafson, co. engr.

Tex., Denison—June 19, by R. G. Gresham, city secy., concrete paving Myrick St $25,000. C. E. Hayden, city engr.

Tex., Jasper—June 27, by A. D. Hancock, judge Jasper Co. grading and gravel surfacing 11,162 cu.yd. State Highway 45, State Aid Project 441. $54,030. C. P. Hunter, Hunter co., engr. Noted Feb. 14.

Okla., Grandfield—June 16, by G. H. Hoefer, city clk., grading and paving 5 blocks 2nd St., 6,150 sq.yd. concrete, 2,800 lin.ft. curbing, 2,100 cu.yd. excav. $28,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Colorado—June 18, by State Hy. Dept., Denver, concrete paving 1.249 mi. Federal Aid Project 281-A, $55,293, and 3.068 mi. Federal Ail Project 281-B, $104,297, both Boulder Co., alternate bids for bituminous on concrete; grading 2.711 mi. Federal Aid Project 245-B, Bent Co., $29,893. L. D. Blauvelt, State Office Bldg., Denver, engr.

Arizona—June 19, by W. C. Lefebvre, state engr., c/o Coconino Co. Bd. of Supervs., Flagstaff, improving Winslow-Flagstaff Hy., Federal Aid Project 74, 16,000 cu.yd. roadway excav., 101,000 cu. yd. borrow excav., 6,000 cu.yd. ditches and levees, 390 cu.yd. concrete, 31,000 lb. reinforcing, etc.

Arizona—June 20, by W. C. Lefebvre, state engr., c/o Navajo Co. Hy. Comn., Holbrook, improving Winslow-Coconino Co. Line Hy., Federal Aid Project 22, 3,300 cu.yd. roadway excav., 7,800 cu.yd. roadway borrow, 2,300 sta.yd. overhaul, 80 cu.yd. concrete, etc.

Washington—June 24, by State Hy. Comn., Olympia, clearing, grading and gravel surfacing 2.5 mi. Cascade Wagon Rd., Skagit Co.; 2.9 mi. State Rd. 1, from East Stanwood north, Snohomish Co., 6.6 mi. State Rd. 9, Mason Co.; clearing and grading 14.23 mi. State Rd. 1, from King Co. line to Everett, Snohomish Co., 5.6 mi. State Rd. 1 from Redondo to Milton, King and Pierce Counties, 2.6 mi. State Rd. 2 from Snoqualmie to North Bend, King Co.; clearing, grading and crushed rock surfacing 4 mi. State Rd. 5, Lewis Co.; concrete paving 2.5 mi. State Rd. 2, from Spokane east, Spokane Co. J. Allen, state highway engr.

Wash., Seattle—June 23, by Comrs. King Co., constructing Stevens Pass Line Revision Rd., Sect. 1, 8,543 cu.yd. solid and 4,291 cu.yd. loose rock excav., grubbing 8 acres, clearing 4 acres, etc., Sect. 2, 1,593 cu.yd. solid rock and 5,641 cu.yd. earth excav., clearing 7.6 acres and grubbing 5.1 acres, $50,000; George W. Peck Rd. from Des Moines east, 12,114 sq.yd. concrete paving, 2,433 cu.yd. excav., 5,280 lin.ft. side surfacing, etc., $31,000. T. R. Beeman, co. engr.

California—June 23, by State Highway Comn., Sacramento, paving 8.1 mi. between west boundary and Banta, San Joaquin Co., asphaltic concrete. R. M. Morton, state highway engr. Noted May 8.

California—June 30, by State Highway Comn., Sacramento, grading 4.3 mi. road between Floriston and Nevada state line, Nevada and Sierra Counties; 8.7 mi. road between Gold Run and Forebay, Placer Co.; paving 6.5 mi. road between Eureka and Arcata, Humboldt Co., concrete. R. M. Morton, state highway engr. Noted Oct. 4.

Calif., Chico—Taking bids improving various streets, 581,040 sq.ft. grading, 575,200 sq.ft. 5 in. asphaltic concrete paving, curbs, gutters, walks, etc. To exceed $75,000. C. M. Ennis, city engr. Noted June 5.

Ontario—June 20, by S. L. Squire, deputy minister Dept. Pub. Highways, Toronto, 0.95 mi. asphaltic concrete on Contr. 1127, and 0.95 mi. Contr. 1052, in Cornwall, 6 mi. macadam road on Contr. 1029 in Bellville, 6 mi. concrete paving Contr. 1128 in Belleville. $70,000. C. A. Robbins, Brockville, engr.

BIDS RECEIVED

Vermont—T. W. Dix, ch. engr. State Hy. Dept., Montpelier, paving 3.03 mi. road in Guilford, Federal Aid Project 57A, bituminous macadam, from D. W. Overrocker, Brattleboro, $106,303. Noted May 22.

Mass., Charleston (Boston P. O.)—Pub. Wks. Dept., City Hall, Boston, granite block paving Chelsea St. from Vine St. to Chelsea Bridge, here, from J. W. O'Connell, 73 Tremont St., Boston, $19,420. Engrs. est. $25,000. Noted June 5.

Mass., Quincy—Metropolitan Dist. Comn. 1 Ashburton Pl., Boston, grading surfacing and building bridge, etc., Furnace Brook Parkway, from Hancock St. to Newport Ave., here, from A. S. Tomasello & Son, 68 Devonshire St., Boston, $95,848.

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro. Hall, grading, curbing and flagging (1) East 13th St., (2) East 16th St., (3) East 28th St., (4) 49th St., (5) 67th St., (6) 85th St., asphalt paving (7) East 16th St., (8) East 28th St., (9) 49th St., (10) 87th St., asphalt, repaving (11) Foster Ave., (12) Grace Court, (13) 12th Ave., grading, curbing and laying cement sidewalks on (14) 67th St., curbing and asphalt paving (15) East 18th St., (16) 82nd St., asphalt paving road way of (17) 67th St., from F. Persicano, 350 Fulton St., (1) $5,791; from G. M. Mandatto, 129-29th St., (2) $5,846; from T. B. Scott, 671 Halsey St., (3) $3,037 (4) $3,950, (6) $5,192; from Cranford Co., 52 9th St., (7) $8,860 (15) $2,835 (8) $9,111 (9) $8,350 (10) $7,413, (11) $6,559, (12) $6,559, (13) $19,873, (16) $5,462, (17) $30,755; from M. J. O'Hara, 717 65th St., (12) $32,876; from Galco Contg. Co., 745 Dean St., (5) $6,595; from W. E. Carberry, 45 South Elliott Pl., (14) $6,788. Noted May 29.

N. Y., Buffalo—Comr. Pub. Wks., June 5, from Rock Asphalt & Constr. Co., Morgan Bldg., asphalt paving Comstock Ave. $22,407, Kofler St. $11,167, Littlefield Ave. $19,080, Olive St. $14,109, Remington Pl. $14,110, Hopkins St. $76,613, repaving Seymour St. $26,957; from H. P. Burgard Co., 1968 Filmore Ave., asphalt paving Decker St. $23,456, Fennimore Ave. $17,824, Minnesota Ave. $35,907, Kofler St. $11,167. Noted June 5.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., from C. Kurth, 9519 126th St., Richmond Hill, grading, curbing and laying sidewalks on Arcadia and Maurice Aves., $1,965 and $10,645 respectively; from Welsh Bros., 32 Queens St., Astoria, grading, etc., Hunt St. $8,145, and grading, curbing and laying sidewalks on Siboutsen and 1st Sts., $6,040 and $5,782 respectively; from Kennedy & Smith, 93 Amity St., Flushing, grading, curbing and laying sidewalks on Hunt and Opdyke Sts., $19,387 and $8,465 respectively; from W. P. McDonald, 17 West 42nd St., New York, grading, curbing, flagging and asphalt paving, etc., Court St. $1,045, grading, curbing and laying sidewalks on 123rd St., $31,415; from Sicilian Asphalt Paving Co., 41 Park Row, New York, grading, regrading, curbing, recurbing and laying sidewalks on Gasman Ave., $147,825, grading, curbing, laying sidewalks and paving Richard Ave. $11,895; from Cleveland Trinidad Paving Co., Flushing, sheet asphalt paving Maurice Ave. $25,630, Opdyke St. $10,910, Siboutsen St. $10,485, 85th St. $27,170, 86th St. $27,130; from Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., sheet asphalt paving 85th St., $22,086; from F. Soviero, grading, curbing and laying sidewalks, etc., on 2 sections 85th St. $10,885 and $10,775, 86th St. $10,028, 97th St. $13,573, 103rd Ave. $12,574. Noted May 29.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., constructing Transverse road carrying the center driveway of Grand Blvd. and Concourse under East Fordham Rd., from Bronx Sewer Constr. Co., 375 East Fordham Rd., $394,391. Noted May 29.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving bituminous concrete roadway of Richmond Ave., etc., from J. E. Donovan Paving Co., 2205 Richmond Terrace, Port Richmond, $25,231. Noted May 29.

N. J., New Brunswick—Middlesex Co., paving New Brunswick Ave., Woodbridge Twp., from A. Keyes, Woodbridge, $68,711.

Md., Baltimore—Bd. Awards, June 4, grading, curbing and paving streets listed in Contr. 258-NA, 6,560 sq.yd. asphalt, from P. Flanigan & Sons, Hartford Rd. and Baltimore & Ohio R.R., $29,665; grading streets listed in Contr. 257-OA, from W. Meyer, Phila. Ave. and 5th St., $13,860. Noted June 5.

Pennsylvania—State Dept. Hys., Harrisburg, **(R. means Route and A. Application)**, surfacing either bituminous on concrete or one course rein.-con., 20,826 ft. R. 95, McKean Co., from D. L. Dennis, Eldred, $192,268; rein.-con. surfacing 15,655 ft. A. 2577, Sect. 1, Clarion Co., from Standard Paving & Contg. Co., 210 East Ohio St., Chicago, $130,662, 27,214 ft. Jessup and Bridgewater T, Susquehanna Co., from Pub. Serv. Production Co., 80 Park Pl., Newark, N. J., stone $261,433, gravel $254,863, 4,847 ft. A. 2436, Delaware Co., from Union Paving Co., 30th and Locust Sts., Phila., stone $48,997, gravel $47,639, 35,095 ft. R. 223, Indiana Co., from Paul Constr. Co., Inc., Cresson, $357,018, 23,062 ft. R. 178, Hucks Co., from E. Riley Mixner Co., Goshen, N. J., $177,658, 26,540 ft. R. 110, Greene Co., from S. J. Groves & Sons Co., 306 Globe Bldg., Minneapolis, Minn., $381,991, 7,358 ft. R. 108, Washington Co., from P. Derienzo, Fayette City, $90,081, 26,928 ft. R. 113, Washington Co., from Meredith, McVaugh & Webb, Jamestown, $288,729, 15,071 ft. R. 61, Jefferson Co., from N. Wiesner, 372 Chestnut St., St. Marys, $135,331, 12,991 ft. A. 143,

Streets and Roads (Continued)

Sect. 2, Westmoreland Co., from Frazier & Mansfield, McKeesport, $193,748, 21,401 ft. R. 338, Jefferson Co., from Miller Constr. Co., Spirit Bldg., Punxsutawney, $232,834, 7,282 ft. R. 4, Luzerne Co., from B. G. Coon Constr. Co., 274 Union St., Luzerne, $96,673.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., grading, Schedule A, 25,091 cu.yd. Albanus, C, Louden, Rosehill and Sheldon Sts., from F. Mark Contg. Co., 21st St., $16,311, 15,250 cu.yd. Beaumont, Belmar, Windsor, 60th and 68th Sts., from E. A. Mullen, Inc., 5512 Vine St., $10,160, 4,082 cu.yd. Ivins and Pembroke Sts. from Byrne Bros., 335 Gates St., $4,041, 3,923 cu.yd. Milne St., from G. F. Dobbin, 1020 South 47th St., $10,129; asphalt paving, Schedule B, Beaumont, Belmar and Creswell Sts., from Barber Asphalt Co., 239 North 30th St., $11,877, Lambert and Woodstock Sts., from Eastern Paving Co., 401 Colonial Trust Bldg., $4,387; 5,451 tons crushed slag, from J. Meehan, 916 West Dakota St., $14,398.

Ind., Madison — Jefferson Co., grading and graveling Oliver Thornton Rd., from D. H. Fatout, 4330 Bway., Indianapolis, $26,775. Engrs. est. $30,160.

O., Cincinnati—Hamilton Co., June 6, constructing 14,690 lin.ft. Eight Mile Rd., 16 ft., 25,000 cu.yd grading, 70,000 gal. Grade 1, tar, etc., from J. S. Sloan, Cincinnati, $60,524. Engrs. est. $68,640. Noted May 29.

O., Cleveland—Improving **(1)** East 149th St. **(2)** East 120th St. **(3)** East 114th St. (1 to 3 inclusive) involves 13,330 sq.yd. asphalt, concrete or brick on concrete, 11,345 ft. stone curbing, 12,110 ft. 4 in. drain tile gutter 7,750 cu.yd. earth excav. **(4)** East 106th St. **(5)** Treadway Ave. **(6)** Gordon St. (4 to 6 inclusive) involves 8,370 sq.yd. asphalt, concrete or brick on concrete, 6,400 lin.ft. stone curb, 6,652 lin.ft. 4 in. drain tile gutter, 8,525 cu.yd. earth excav. **(7)** Sarenec Rd. **(8)** Proctor Court **(9)** East 151st St. (7 to 9 inclusive) involves 29,390 sq.yd. concrete, asphalt or brick on concrete, 12,440 lin. ft. stone curbing, 12,560 lin. ft. 4 in. drain tile gutter, 9,400 cu.yd. earth excav., from Freshwater Constr. Co., National Bldg., **(1) $31,878 (6) $3,307**; from H. G. Herring, Pavers Exchange, **(2) $17,229 (4) $26,119**; A. M. Pejsa, 3161 Derbyshire Rd., **(3) $24,119**; W. E. McHugh, Pavers Exchange, **(5) $22,873**; Gould & Maybeck, 16311 Sarenec Rd., **(7) $52,796**; Enterprise Paving & Constr. Co., 8444 Bway., **(8) $3,927** Bentley Bros., 3030 Euclid Ave., **(9) $80,602**.

O., Cleveland Heights (Warrensville P. O.)—Grading, asphalt paving and curbing Oak Ridge Rd., from Rieley Bros., The Arcade, Cleveland, $51,876; Mayfield Rd., and Washington Blvd., from Cleveland Trinidad Paving Co., The Arcade, Cleveland, $58,364 and $106,693 respectively. Noted May 29.

Ind., Noblesville—Hamilton Co., 24,288 sq.yd. concrete paving on Crum Rd., from Standard Paving Co., Anderson, $49,474. Engrs. est. $58,414. Noted May 22.

Ind., Warsaw—Kosciusko Co., concrete paving, 5.66 mi. Swartz Rd., 18 ft., from C. T. Cain, Bluffton, $83,900. Engrs. est. $100,958. Noted May 22.

Michigan — State Hy. Dept., at office Comrs. Ingham Co., Charlotte, grading and surfacing 1.014 mi. Federal Aid Project 100 A1 and A2, 11,486 cu.yd. excav., 12,149 sq.yd. concrete, from H. A. Hoxie, Grand Rapids, $29,205. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and surfacing 4.333 mi. Federal Aid Project 100 A3, 27,736 cu.yd. excav., 50,844 sq.yd concrete, from H. A. Hoxie, Grand Rapids, $114,364. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Otsego Co., Gaylord, grading and gravel surfacing 4.276 mi. State Trunk Line Rd. 32-7, B, 24,794 cu.yd. excav., 40,572 sq.yd. gravel, from Yuill & Stevenson, Vanderbilt, $48,320. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Dickinson Co., Iron Mountain, shaping and surfacing 2.511 mi. State Trunk Line Rd. 12-38, A and B, 9,054 cu.yd. excav., 28,141 sq.yd. concrete, from Carlson & Lundrin, Menominee, $58,488. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and surfacing 4.875 mi. State Trunk Line Rd. 14-36, A and B, 28,834 cu.yd. excav., 56,144 sq.yd. concrete, from States Impvt. Co., 160 LaSalle St., Chicago, Ill., $111,857. Noted May 22.

Michigan—State Hy. Dept. at office Pentwater Twp. Clerk, Pentwater, shaping and surfacing 3.373 mi. State Trunk Line Rd. 11-25, Sect. B, Oceana Co. (Hart), from Charlevoix Abstract & Eng. Co., Charlevoix, $39,311. Noted May 22.

Mich., Detroit—From Detroit Asphalt Paving Co., 909 Free Press Bldg., paving with 3½ in. sheet asphalt on 8 in. concrete, Beechwood Ave. $37,322, Barton Ave. $24,377, Majestic Ave. $26,413, Petoskey Ave. $19,789, Proctor Ave. $46,508, Rosemary Ave. $39,818, Sparta Ave. $33,815, Ohio Ave. $30,831, Wyoming Ave. $77,466, Wilshire Ave., $39,439, and Warren Ave. $184,397; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., Parkside Ave. $39,331.

Wis., Milwaukee—Dept. Pub. Wks., improving **(a)** concrete **(b)** vibrolithic concrete **(c)** asphaltic concrete **(1)** Vine St., 1,430 cu.yd. grading, 3,122 sq.yd. paving and 2,300 ft. concrete curb and gutter, **(2)** Wilson St., 1,453 ft. concrete curb and gutter, **(3)** 56th St., 8,520 sq.ft. concrete sidewalks, etc., **(4)** 57th St., 9,064 sq.ft. concrete sidewalks, **(5)** 60th St., 7,445 sq. ft. concrete sidewalks, **(6)** 23rd Ave., 4,212 sq.ft. concrete sidewalks, 703 ft. concrete curb and gutter, from Bodemann Constr. Co., 691 48th St., **(a1)** $13,917 **(5)** $3,655; from Milwaukee Genl. Constr. Co., 427 Mitchell St., **(b1)** $13,782 **(6)** $2,395; from Badgerd Constr. Co., 97 Wisconsin St., **(c1)** $14,086; from W. Vanderboom, 97 32nd St., **(2)** $1,320; from F. Schomann, 770 28th St., **(3)** $4,515 **(4)** $3,776.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving, etc., various alleys, 1 alley, from Tallmadge & Hunt Constr. Co., 445 Milwaukee St., $1,273; 1 alley, from F. Blodgett Inc., 521 Newton Ave., $2,199; 2 alleys, from Bodemann Constr. Co., 691 48th St., $9,245; 3 alleys, from Schwerm Bros., 50 Lee St., $9,001; 5 alleys, from J. Bluhm & Son, 1298 Achilles Pl., $32,688; 4 alleys, from Ryback & Sadowski, 1092 2nd St., $16,384. Noted Apr. 10.

Tex., Alice—Jim Wells Co., grading and bridging 14.3 mi. State Highway 12, Federal Aid Project 429-E, 1,362 cu.yd. concrete, 77,762 cu.yd. roadway and 38,877 cu.yd. borrow excav., 2,624 cu.yd. dry structural excav., 146,846 lb. reinforcing, from C. F. Tom, Gonzales, $59,109. Engrs. est. $66,745. Noted May 8.

Tex., Alpine — Brewster Co. grading, gravel caliche surfacing, etc. 13.88 mi. State Highway 3, Federal Aid Project 378-D, 361.5 cu.yd. concrete, 72,667 cu.yd. earth and 994 cu.yd. rock excav., 2,472 sq.yd. 8 in. concrete base. 31,457 lb. reinforcing, 33,912 cu.yd. gravel caliche, to be furnished by county, from Bandy-Crowder-Williams Co., El Paso, $59,540. Engrs. est. $68,648. Noted May 8.

Tex., Bay City—Matagorda Co. **(a)** grading, **(b)** shell surfacing, **(c)** rein.-con. drainage structures on 4.89 mi. State Highway 60, Federal Aid Project 428, 15 ft., from J. M. Neary & L. M. Le Tulle, Bay City, **(a, b and c)** $33,483; from J. Dockery, Wharton, **(a and b)** $27,369; from Dotson & White, Bay City, **(c)** $8,511. Noted May 15.

Tex., Cameron—Milam Co. grading, etc., 4.90 mi. State Highway 43, Federal Aid Project 394-B, 449.8 cu.yd. concrete, 29,063 cu.yd. roadway and 37,343 cu. yd. borrow excav., 54,036 lb. reinforcing, from H. Popejoy, Rosebud, $25,545. Engrs. est. $33,160. Noted May 8.

Tex., Georgetown—Williamson Co. grading, etc., 7.11 mi. State Highway 74, Federal Aid Project 418-A, 1,057 cu.yd. concrete, 43,560 cu.yd. roadway 21,489 cu.yd. borrow and 5,789 cu.yd. rock excav., 111,800 lb. reinforcing, from Brown & Root, Georgetown, $47,567. Engrs. est. $48,690. Noted Mar. 27.

Tex., Georgetown—Williamson Co. grading, etc., 8.48 mi. State Highway 29, Liberty-Hill-Leander Rd., 837.6 cu.yd. concrete, 57,753 cu.yd. roadway and 9,435 cu. yd borrow excav., 73,975 lb. reinforcing, from J. R. Hawkins, Granger, $39,042. Engrs. est. $40,750. Noted Apr. 24.

Tex., Palo Pinto—Palo Pinto Co. **(a)** 29,686 sq.yd. vitr. brick paving, **(b)** 35,624 lin.ft. concrete curbing State Highway 1, Federal Aid Project 383, from General Constr. Co., Cotton Exch. Bldg., Ft. Worth, **(a)** $43,936; Jordan Constr. Co., Plainview, **(a and b)** $66,439. Noted May 8.

Colo., Denver—From Allied Contractors, Omaha, Neb. **(e.e. means engrs. est.)** asphalt paving 12 blocks South Capitol Hill Paving Dist. 3, $40,127, e.e. $43,223, 12 blocks South Denver Paving Dist. 1, $74,713, e.e. $79,652, 12 blocks South Denver Paving Dist. 4, $38,803, e.e. $42,742; from Western Paving & Constr. Co., International Trust Bldg., 12 blocks Capitol Hill Paving Dist. 6, $40,087, e.e. $42,951, 12 blocks Capitol Hill Paving Dist. 12, $37,659, e.e. $41,757, 12 blocks Capitol Hill Paving Dist. 13, $51,285, e.e. $56,476, 12 blocks Capitol Hill Paving Dist. 14, $40,246, e.e. $44,075; from New Mexico Constr. Co., Albequerque, N. M., 12 blocks North Denver Paving Dist. 6, $47,314, e.e. $49,555, 12 blocks Capitol Hill Paving Dist. 3, $36,331, e.e. $43,223.

California—State Highway Comn., Sacramento, improving 8 mi. highway between ⅞ mi. north of Colfax to Gold-Run, Placer Co., 336,200 cu.yd. excav., 640,850 sq.yd. overhaul, 1,530 cu.yd. structure excav., 1,260 ft. 18 in. and 3,050 ft. 24 in. corrugated metal pipe, from C. R. Adams, Merced, $299,411, engrs. est. $313,735; 4.3 mi. road between Greenville and Livermore, Alameda Co., 12,000 cu.yd. roadway embankment, 8,000 sta.yd. overhaul, 3,000 yd. mi. overhaul, 2,910 cu.yd. concrete shoulders, etc., from W. A. Dontanville, 330 Monterey St., Salinas, $51,647, engrs. est. $55,924. Noted May 15.

California—State Highway Comn., Sacramento, paving 4.2 mi. road from Susanville to Johnstonville, Lassen Co., asphaltic macadam, from T. H. and M. C. Polk, Chico, $47,681; 3½ mi. road between Redwood City and south boundary, San Mateo Co., asphaltic concrete with macadam shoulders, from Pacific States Constr. Co., Call Bldg., San Francisco, $119,266. Noted May 8.

Calif., Inglewood — Improving portion Olive St., 191,396 sq.ft. grading, 117,426 sq.ft. 5 in. asphaltic concrete, curbs, gutters, from G. H. Oswald, 366 East 58th St., Los Angeles, $52,916. Noted May 29.

CONTRACTS AWARDED

Maine — State Hy. Comn., Augusta, bituminous macadam surfacing 1.77 mi. section of state highway B in Bridgeton, to Arborio Road Constr. Co., 408 Main St., Hartford, Conn., $40,883; graveling 4.05 mi. section of state highway "J-K" in Orneville and La Grange, to Wyman & Simpson, Waterville, $63,988. Noted May 29.

N. Y., Brooklyn — E. Riegelmann, boro pres., Boro Hall, to Cleveland Trinidad Paving Co., Flushing, repaving with asphalt roadway of East 14th St., $6,817, Kingston Ave. $10,360; to Borough Asphalt Co., 1301 Metropolitan Ave., Lafayette Ave. $48,767; to M. J. O'Hara, 1228 Park Ave., New York, 41st St. $10,192; to H. Johnson, Astoria Ave. and East 46th St., Elmhurst, constructing timber jetty pile, foot of West 10th St., $4,456. Noted May 29.

N. Y., Johnson—Paving Floral and Ackley Aves., bitulithic, to C. W. Rose, 616 Chenango St., Binghamton, $145,427. Noted May 22.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., alterations and improvements to sewer in Beaver St., to P. J. Donlon Constr. Co., Snyder Ave. and East 56th St., Brooklyn, $27,626; curbing, recurbing, flagging and reflagging, etc., West 176th St., to Asphalt Constr. Co., 208 Bway., $8,980; grading, regrading, curbing and recurbing, etc., West 177th St., M. Del Baso, 660 East 221st St., $29,060; curbing, recurbing, flagging, reflagging and paving with asphalt blocks Payson Ave., to Burnside Constr. Co., 270 Burnside Ave., $12,397; sidewalks on park strips on Park Ave., to P. Cramer, 154 East 50th St., $6,749. Noted June 5.

N. J., Bridgeton — Cumberland Co., Court House, concrete paving Sect. 1 Bridgeton-Port Norris Rd., to R. L. Bonham Co., Bridgeton, $171,684, Sect. 2, to Union Paving Co., 30th and Lancaster Sts., Phila., Pa., $158,832. Noted Apr. 10.

N. J., Carteret — Boro. Council paving Grant, Pershing and Atlantic Aves., to W. C. Smith, Carteret, $26,691.

Pennsylvania—State Dept. Hys., Harrisburg, **(R. means Route and A. Application)**, rein.-con. roads R. 71, Sect. 1, Butler Co., to C. Winters Constr. Co., Renfrew, $247,971; R. 231, Adams Co., to Union Constr. Co., Woolworth Bldg., Lancaster, $229,596; Tukhamoch Twp. and Tunkhannock Boro R. 11, Wyoming Co., to Winston & Co., Masonic Temple, Harrisburg, $333,948; A. 1952, Beaver Co., to J. B. Reed, McKees Rocks, $83,215; R. 333, York Co., to P. R. Hostetter, Inc., Philadelphia St., York, $172,776. Noted May 29 and Apr. 24.

Pa., Lewistown—Mifflin Co., rein.-con. paving 5,000 lin.ft. 3rd, Brown and Pine Sts., to W. D. Steinback Sons, Lewistown, $40,270.

Pa., Phila.—Grading, Schedule A. Flanders, Woodcrest, 64th and 66th Sts., to R. B. Weimer, 3106 Midvale Ave., $9,463, G St., to T. Flanagan, 531 East Girard St., $18,062, Ritner St., to F. Brennan, 2507 Tasker St., $984, 32nd St., to E. A. Mullen, Inc., 5512 Vine St., $6,363, 47th St., to Kelly Colgan Co., Inc., Wayne St., $3,817;

Streets and Roads (Continued)

asphalt paving (assessment work) Schedule B, Champlost St., to Eastern Paving Co., 401 Columbia Trust Bldg., $31,298; repairs and reinforcement of bridge at 6th St. and Allegheny Ave., Schedule F, to G. F. Dobbins, 1020 South 47th St., $19,225.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., grading, 25,091 cu.yd. Albanus, C, Louden, Rosehill and Sheldon Sts., to F. Mark Contg. Co., 21st St., $16,311, 15,250 cu.yd. Beaumont, Belmar, Windsor, 60th and 68th Sts., to E. A. Mullen, Inc., 5512 Vine St., $10,160, 4,082 cu.yd. Ivins and Pembroke Sts. to Byrne Bros., 335 Gates St., $4,041, 3,923 cu.yd. Milne St., to G. F. Dobbin, 1020 South 47th St., $10,129; asphalt paving, Beaumont and Belmar Sts., to Barber Asphalt Co., 239 North 30th St., $9,872; 5,451 tons crushed slag, to J. Meehan, 916 West Dakota St., $14,398.

Delaware—State Hy. Dept., Dover, grading, paving, etc., 3.24 mi. Mission-Gumboro Rd., concrete, Contr. CS-33, to R. L. Bonham Co., Bridgeton, N. J.; 5.39 mi. Willow-Grove-Wyoming Rd., Contr. CK-22, to Hannaman-Burroughs Co., Salisbury, Md., $169,503; 4.05 mi. Basin Corner-Newport-Lincoln Highway, Contr. CN-20, to D. E. O'Connell & Sons, Ridley Park, Pa., $159,-593. Noted May 15.

Md., Baltimore—Concrete paving Alley Contr. 94, to J. J. Bresnan & Co., 1626 Bank St., $34,337. Noted June 5.

North Carolina—State Hy. Dept., Raleigh, **(S. P. means State Project)** grading and plain concrete paving 6.17 mi. S. P. 812-B, Burke Co., to Overstreet & Nance, Bedford, Va., $195,367, 2.05 mi. S. P. 890, Yancey Co., to Fiske-Carter Constr. Co., Greenville, S. C., $87,051, 12 mi. S. P. 107-B, Bertie Co., to F. Mitchell Constr. Co., Greenville, $347,017; grading, etc., 10.77 mi. S. P. 212, Craven Co., to Eagle Eng. Co., New Bern, $71,574; grading and topsoiling 16.66 mi. S. P. 134, Gates Co., to Smith Bros., Inc., Allen Bldg., Raleigh, $67,148; grading and sand asphalt paving 8.13 mi. S. P. 318, Brunswick Co., to W. F. Bowe, Augusta, Ga., $98,221; grading and water-bound macadam paving 14.18 mi. S. P. 888, Yancey Co., to W. E. Graham, Mt. Ulla, $143,922; grading, rein.-con. bridges and culverts 2.47 mi. S. P. 966-A, Macon Co., to Herbert & Witt, Murphy, $39,000 (engrs. est.). Noted June 5.

Fla., Gulfport—To Bowyer & Kendrick, 1st Natl. Bank Bldg., Tampa, vitr. brick, asphalt filler paving, 11,125 sq.yd. Bon Air, Grant, Palm, Shore and 2nd Sts.; Lakeview Ave.; 17,452 sq.yd. 3rd St.; 18,760 sq.yd. Sunset Ave.; 19,082 sq.yd. Lee Ave.; 27,000 sq.yd. Davis Blvd., each $2.40 per sq.yd. Noted June 5.

Fla., West Palm Beach—Palm Beach Co. improving 5½ mi. Delray West Rd. 1 in Special Rd. & Bridge Dist. 19, to C. W. Brown and D. S. Ashton, Bocaratone, $38,854.

Ala., Decatur — Morgan Co. repairing with crushed stone and asphalt 25 mi. Courtland and Moulton Rds., 30 ft., to Columbia Asphalt Co., Columbia, Tenn., $25,000. Noted May 15.

La., Haynesville—City Council, grading, concrete curbing, guttering and paving with concrete 7 blocks downtown streets, to E. J. Deas, Shreveport, approximately $25,-000. Noted May 8.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, grading, etc., 9.62 mi. Davidson Co. line-Dickson Co. line Rd., 18 ft., Federal Aid Project 205, Cheatham Co., to Womack Constr. Co. and Texas Willite Road Constr. Co., 1205½ Capitol Ave., Houston, Tex., $126,333. Noted June 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, to F. D. Francis, Columbus, paving 2.005 mi. Sect. "G-2" and 4.687 mi. Sect. "H" Cambridge-New Comerstown Rd., Guernsey Co., asphaltic macadam, $54,007 and $154,946 respectively; to P. B. Putnam, Van Wert, 3.674 mi. Sect. "A," and 2.109 mi. Sect. "F-2" Bellefontaine-Richwood Rd., Logan Co., asphaltic macadam, $80,512 and $46,619 respectively, 6.174 mi. Sects. "K" and "M" Bryan-Pioneer Rd., Williams Co., bituminous macadam, asphalt $82,637, 4.48 mi. Sects. "N" and "L" Bryan-Pioneer Rd., Williams Co., bituminous macadam, tar $59,189; to Wapakoneta Cement Block Co., Wapakoneta, 3.308 mi. Sects. "C-1" and "C-2," 1.6589 mi. Sect. "B," and 0.0647 mi. Sect. "West Milton" Dayton-Covington Rd., Miami Co., rein.-con., $96,761. $39,024 and $1,961 respectively; to J. F. Stambaugh, Ada, 3.513 mi. Sect. "G" Mt. Gilead-Mt. Vernon Rd., Morrow Co., rein.-con. $122,570; to Republic Asphalt Paving Co., 801 Schwind St., Dayton, resurfacing 1.536 mi. Sect. "M" Shelby-Mansfield Rd., Richland Co., bituminous concrete, $34,612; to A. B. Shaw, Delaware, grading and structures on 9.731 mi. Sects. "N," "O" and "P" Pomeroy-Marietta Rd., Meigs Co., $124,594; to G. Keener, Madison, bridge approaches on 0.121 mi. Sects. "A" and "C" Painesville-Warren Rd., Lake Co., $19,856; to I. J. Kuhner, Jackson, Bridge "FJ," on Jackson-Pomeroy Rd., Jackson Co., $8,080. Noted May 15.

O., Cleveland—Paving Edgewater Park, 7,000 sq.yd. bituminous concrete, to Rieley Bros., The Arcade, $46,134. Noted June 5.

O., Cleveland — Cuyahoga Co., paving Fitzwater River Rd., 26,000 sq.yd. concrete, 2,970 lin.ft. 6 x 14 cement curbing, 25,650 lin.ft. 4 in. drain tile gutter, 11,300 cu.yd. earth excav., to Hannon Constr. Co., Niles, $104,078. Engrs. est. $114,750. Noted May 15.

Ind., Crown Point—Lake Co., graveling 7.6 mi. Meyn Rd., 30 ft., to J. J. Nejdl, 408 La Porte Ave., Whiting, $133,400, engrs. est. $135,500; 11 mi. Fulton Rd., 30 ft., to M. D. Heiney, Gary, Ind., $168,900, engrs. est. $170,000. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Huron Co., Bad Axe, grading and surfacing 0.41 mi. State Trunk Line Rd. 19-8, Sect. B, 2,527 cu.yd. excav., 7,477 sq. yd. concrete, to Schultz & Liken, Sebeawing, $23,208. Noted June 5.

Michigan — State Hy. Dept. at office Comrs. St. Joseph Co., Centreville, grading and surfacing 8.746 mi. State Trunk Line Rd. 60-3, 51,826 cu.yd. excav., 93,717 sq. yd. 7 in. concrete, to Whitlow & Nelson, Muskegon, $172,511. Noted May 15.

Michigan -- State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing 0.68 mi. State Trunk Line Rd. 36-5, 5,657 cu.yd. excav., 14,404 sq.yd. concrete, etc., to C. H. Frame & Son, Harbor Beach, $35,747, also 1.244 mi. State Trunk Line Rd. 36-4, 9,507 cu.yd. excav., 6,340 sq.yd. gravel, 7,660 sq.yd. concrete to R. C. Bailey, Corunna, $25,792. Noted June 5.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, received no bids May 28, grading and surfacing 0.876 mi. Federal Aid Project 88, Sect. C, 10,723 sq.yd. concrete. Work will be done by day labor. G. C. Dillman, Lansing, ch. engr. Noted May 22.

Michigan—State Highway Dept. at office Bd. Van Buren Co. Rd. Comrs., Paw Paw, grading and surfacing 3.295 mi. State Trunk Line Rd. 40-1, Sect. A, 34,800 sq.yd. concrete, 21,027 cu.yd. earth excav., to Kalamazoo Paving Co., Kalamazoo, $68,-071. Noted May 29.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, **(31-22 Fulton means State Route 31, Sect. 2, Fulton Co.)**, paving 31-22 Fulton, to Sutton & Moore, Canton, $111,212; 27-13X Williamson, to Montague Constr. Co., Carbondale, $29,-399; 2-55 DeWitt-McLean, to McMahan Constr. Co., Rochester, Ind., $188,688; paving 2-70 and grading 2-70A LaSalle, to Powers-Thompson Constr. Co., Joliet, $31,-217 and $115,745 respectively; grading 2 and 35-17A Pulaski-Alexander, to C. I. Jones, Omaha, $154,490. Noted Nov. 1, Mar. 13 and 27 and May 29.

Ill., East St. Louis—Grading and rein.-con. surfacing 6 mi. State St., 66 ft., to Keeley Bros. Constr. Co., 21st and State Sts., $317,688. Engrs. est. $343,000.

Wis., North Milwaukee—W. E. Chase, city clk., improving various streets, to Milwaukee General Constr. Co., 427 Mitchell St., Milwaukee, 15,102 cu.yd. grading $0.88 per sq.yd. and 22,661 sq.yd. concrete pavement $2.85. Noted May 29.

Wis., Waupaca—F. A. Houseman, city clk., paving 23,000 sq.yd. various streets, asphaltic concrete on macadam, to F. P. Coughlin Co., 130 North Wells St., Chicago, Ill., $43,608. Noted May 15.

Ia., Cedar Falls — Asphaltic concrete paving, etc., about 24,460 sq.yd. incl. 5,740 lin.ft. 6 x 15 in. curb and gutter, and 7,180 lin.ft. 6 x 18 in. curb, to E. Rasmussen, 1116 3rd Ave. N., Ft. Dodge, $58,710.

Ia., Cedar Rapids—Cement concrete paving in Cobban Court and 4 streets, to Ford Paving Co., 208 2nd St., $36,930; 9 alleys, to Stark-Schneider Constr. Co., Cedar Rapids, $11,748. Noted May 8.

Minnesota—State Hy. Dept., St. Paul, to Nolan Bros., 18 North 2nd St., Minneapolis, 5.4 mi. State Project 1-26, Federal Aid Project 321, 57,444 sq.yd. concrete, $2.42 per sq.yd., total $144,645, grading 6 mi. State Project 15-30, Div. C, Federal Aid Project 341, 88,000 cu.yd. excav., $25,948; to Volden Bros., Milan, grading 13 mi. State Project 14-23, Federal Aid Project 355, 141,000 cu.yd. excav., $25,948; to Arlington Cement Stone Co., Arlington, culverts on same $4,936; to Enbeck & Anderson, Warren, grading 14.7 mi. State Project 64-22, Federal Aid Project 353, 194,000 cu.yd. excav., $55,050, to E. Mattson, 116 Rose St., St. Paul, culverts on same $13,-696. Noted May 15.

Minn., St. Paul—Resurfacing East 7th St. between Hope St. and Phalen Ave., 18,421 sq.yd. 3 in. sheet asphalt, 850 sq.yd. sheet asphalt with new concrete base, to White Constr. Co., 17 North Dearborn St., Chicago, Ill., $25,314. Noted May 15.

Kan., Minneapolis—Ottawa Co. grading 7.021 mi. Federal Aid Project 185-A, to Campbell & Lachenmaier, Miltonvale, $16,-966, culverts, to W. B. Honske, Osborne, $10,076, 4 bridges, to Yancey Constr. Co., Abilene, $10,921. Noted May 8.

Kan., Wichita—To Globe Constr. Co., 1069 North Water St., Improving Ellis, 15th, Ida, Green, Jackson, Grand, Morris, Martinson, Murdock, 2nd. Wichita, Dayton, Lewellen, Hiram and Harrison Sts., Alleys North and South of Douglas St., 43,318 sq.yd. concrete at $1.79 per sq.yd., 470 sq.yd. concrete $2.10, 12,162 cu.yd. excav. $0.90, 1,004 sq.yd. sand fill $0.25; Mosley St., 460.67 sq.yd. brick $3.25, 500 cu.yd. excav. $0.90. Engrs. est. $200,000. Noted Mar. 6.

Neb., Kearney—To E. D. Tyner Constr. Co., 14th and Elmwood Sts., Kansas City, Mo., improving West 28th St., Dist. 61, 18,-000 sq.yd. asphaltic concrete at $2.24 per sq.yd., 3,500 cu.yd. grading at $0.45; to E. R. Edwards & Son, Kearney, 8,500 lin. ft. curb and gutter at $0.58. Noted June 5.

Wyo., Casper — Paving with 5 in. bituminous concrete, and laying sewers in Paving Dist. 43, to Warren Constr. Co., Casper, $104,971.

Mo., St. Charles—Resurfacing with concrete, etc., various streets, to H. Werrminghaus, St. Charles, $28,890.

Mo., St. Louis—Improving Oleatha, Sulphur and Thedore Aves., to Skrainka Constr. Co., Security Bldg., $41,305, engrs. est. $47,700; Bates, Macklind and Tholozan Aves., to J. E. Perkinson, 3237 Carter Ave., $82,863, engrs. est. $94,700. Noted June 5.

Ark., Morrilton—Grading and rein.-con. paving about 1 mi. Dist. 3, to Mooley Constr. Co., Morrilton.

Tex., Abilene—Taylor Co. paving with 2 in. Warrenite bitulithic on 5 in. concrete, 17,055 sq.yd. Oak St., 8,066 sq.yd. Chestnut St. and 8,500 sq.yd. Sealy St., to West Texas Constr. Co., Park Office Bldg., $51,633, $28,661 and $27,500 respectively. Engrs. ests. $55,000, $30,000 and $30,000 respectively.

Tex., Amarillo—Paving with 3 in. brick on 4 in. concrete 6 blocks Tyler St., 60 ft., to Plains Paving Co., Amarillo, $32,-816; grading, brick paving, etc., 6 blocks Washington St., 60 ft., to Willmering & Mullen, Amarillo, $28,686.

Tex., Austin—Travis Co. grading, etc. 6 mi. Colton Rd., 26 ft., to E. Shelton, Temple, $7,531, metal and concrete drainage structures on same, to W. E. Dozier, Austin Natl. Bank Bldg., $13,903; grading and bridging 19.7 mi. Austin-Cameron Rd., 24 ft., to W. E. Dozier, Austin Natl. Bank Bldg., $33,723.

Tex., Dallas—Dallas Co., concrete surfacing drainage structures on 3.3 mi. State Highway 1, east of Mesquite, to Smith Bros., Inc., Amer. Exch. Bank Bldg., $121,-993. Noted June 5.

Tex., Liberty—Liberty Co. grading and gravel surfacing 4.16 mi. State Highway 35, Federal Aid Project 426-A, 12 ft., to C. Vick, Cleveland, $20,693; constructing drainage structures, rein.-con. timber piling, to E. E. Board, Livingston, $8,472. Noted May 8.

Tex., Lubbock — Lubbock Co. improving various streets, 196,000 sq.yd. 2½ in. vitr. brick on 4 in. concrete, 70,000 lin.ft. combined curb and gutter, to Panhandle Constr. Co., Lubbock, $667,494. Engrs. est. $700,000.

Tex., Memphis — Hall Co. grading and bridging 5.5 mi. State Highway 18, State Aid Project 473-B, 24 ft., to Smith Bros., Inc., Amer. Exch. Bank Bldg., Dallas, $37,-829. Engrs. est. $41,390.

Tex., Venus — Concrete paving various streets, to P. M. Skinner, Marlin, $25,000

Oklahoma—State Hy. Dept., Oklahoma City, improving roads, **(F. A. P. means Federal Aid Project, E. E. means engineers estimate)**, grading and concrete paving 21,-600 sq.yd. road from Bristow North, F. A. P. 128-A, Creek Co., to J. J. Harrison, 906 West 13th St., Oklahoma City, $63,302, E. E. $75,000, 10,557 sq.yd. Meridian Highway, F. A. P. 124-A, Kingfisher Co., to Gudgel & McVay, Stillwater, $28,909, E. E. $30,000; grading and graveling 4.0303 mi. road west from Moffett, F. A. P. 151-A, 18 ft., Sequoyah Co., to Stebbins, Waraham & Lewis, Sallisaw, $28,606, E. E. $30,000. 4.0168 mi. road in south east part of County, F. A. P. 74-C, 18 ft., Murray Co., Streets and Roads (Continued)

to W. T. Pharoah, Sulphur, $48,190, E. E. $50,000, 4.4 mi. road over Winding Stair Mountain, F. A. P. 116-B, 18 ft., La Flore Co., to Gravelle Hamblin Co., Manhattan Bldg., Muskogee, $60,856, 145,000 sq.yd. Talihina-Wister Rd. over Winding Stair Mountains, F. A. P. 116-A and C, Le Flore Co., to Maney Bros., Empire Bldg., Oklahoma City, $226,577, E. E. $250,000; surfacing with vertical fibre brick on concrete 28,415 sq.yd. Edmond Rd., F. A. P. 130-A, Oklahoma Co., to Green Beekman Co., 1200 West 11th St., Oklahoma City, $110,410, E. E. $125,000, with Bates Type concrete, 88,989 sq.yd., Russett-Johnston Carter Co. line Rd., Johnson Co., to Garrett & Mills, 1432 West Main St., Oklahoma City, $179,756, E. E. $190,000. Noted May 29.

Okla., Bartlesville—To Hamilton Constr. Co., Bartlesville, improving Kaw, Comanche, 7th, Chickasaw, Cherokee and other streets, concrete paving $3.00 per sq.yd., curbing $0.80, earth excav. $0.85, rock excav. $1.75, total $58,466.

Colorado — State Hy. Dept., Denver, graveling 7.703 mi. Federal Aid Project 242-A, Mesa Co., to D. Hinman, 3358 Race St., Denver, $81,256; grading and graveling 3.239 mi. Federal Aid Project 258-A, Gunnison Co., to R. P. Morrison, Golden, $34,901. Noted June 5.

Wash., Tacoma — Pierce Co., paving Veterans Dr., from Gravelly Lake Blvd. to new Veterans Hospital at American Lake, to Albertson, Cornell Bros. & Walsh, 1113½ A St., Tacoma, $40,626. Engrs. est. $37,599. Noted May 29.

Wash., Vancouver—Clarke Co., to Leisman Constr. Co., Vancouver, surfacing 15.17 mi. La Center-Amboy Rd., 16 ft., Unit 1, 6,982 cu.yd. base course, 600 cu.yd. extra course, and 4,189 cu.yd. top course, all $2.70 per cu.yd., total $31,189 cu.yd. top course, all $2.70 per cu.yd., total $31,782, Unit 2, 9,870 cu.yd. base course, 1,000 cu.yd. extra course, and 5,922 cu.yd. top course, all $2.39 per cu.yd., total $45,338, Unit 3, 3,058 cu.yd. base course, 500 cu.yd. extra course and 1,835 cu.yd. top course, all $2.39 per cu.yd., total $31,782. Engrs. est. $109,000.

Oregon—State Highway Comn., Salem, to Joplin & Eldon, Portland, improving 6 mi. Alsea Mountain Sect. of Alsea Hy., Benton Co., 5,000 cu.yd. broken stone base course $2.85 per cu.yd., 9,000 cu.yd. broken stone top course $3, 3,000 cu.yd. broken stone maintenance $2.90, 1,000 cu.yd. sand filler $0.40, total $50,350; to Greenwood & Dann, 500 North Front St., Portland, 8.17 mi. Missouri Bend Sect. Alsea Hy., Lincoln and Benton Counties, clearing, etc. $15,000, 43,000 cu.yd. common excav. $0.40, 30,500 cu.yd. intermediate excav. $0.60, 45,500 cu.yd. solid rock excav. $1.15, 98,000 sta.yd. overhaul $0.05, 23,000 ft. lumber $80, 540 lin.ft. 18 in. vitr. clay pipe $2.75, 810 lin.ft. 24 in. vitr. clay pipe $5, total $126,470.

Calif., Glendale — Improving Camulos Ave., 109,020 sq.ft. 2 in. oil macadam, etc., to C. L. Hill, 320 West Vine St., about $40,710. Noted May 29.

Calif., Stockton—Improving Wilson Way, to Blumenkranz & Vernon, Farmers & Merchants Bank Bldg., Stockton, $29,595. Noted June 5.

Calif., Los Angeles—To G. H. Oswald, 366 East 58th St., improving Tamarind Ave., grading $5,000, 96,670 sq.ft. warrenite-bitulithic $0.26 per sq.ft., 2,130 ft. curb $0.70, 15,899 sq.ft. walks $0.22, 5,035 sq.ft. gutter $0.35, total to exceed $35,000; to W. Liddington, 420 East 60th St., portion 59th Pl., grading $4,173, 1,510 sq.ft. concrete $0.24, 113,471 sq.ft. oil and roll $0.059, 7,600 ft. curb $0.52, 28,233 sq.ft. walks $0.195, 16,265 sq.ft. gutter $0.30.

Calif., Los Angeles—Los Angeles Co., improving 19,568 lin.ft. Michigan Ave., Rd. Dist. Impvt. 257, 17,948 cu.yd. excav., shaping 44,565 sq.yd. roadbed, 44,565 sq.yd. 5 to 8 in. concrete paving, shaping 19,568 lin.ft. shoulders, etc., to Sully-Miller, 250 Bennett Ave., Long Beach, approximately $97,500. Noted June 5.

Calif., San Diego—Improving Cleveland Ave. and Vermont St., to G. R. Daley, 4430 Boundry St., $59,756. Noted May 29.

Ontario — Dept. Provincial Highways, Toronto, washed gravel concrete paving 7.8 mi. Contract 1021 from Oshawa to Bowmanville, to Johnson Bros., Brantford, $210,000; 6.2 mi. Contract 1022 from New Hamburg to Shakespeare, to McArthur Eng. & Constr. Co., Guelph, $175,000; 6.5 mi. Contract 1050 from Lambeth to Delaware, to Warren Chalmers Constr. Co., 520 Dundas St., London, $175,000, 5.8 mi. Contract 1053 from Thamesford to Ingersoll, to Johnson Bros., Brantford, $180,000; 5.2 mi. Contract 1084, from Essex to Division Rd., to Chick Contg. Co., Windsor, $150,000.

Ont., New Toronto—For 11,000 sq.yd. bituminous paving on 6th St., to Standard Constr. Co., Mimico, $39,408. Engrs. est. $40,000.

Ont., Petersboro—Paving various streets 25,000 sq.yd. bituminous concrete and asphalt, to Warren Bituminous Paving Co, 54 University Ave., Toronto. Engrs. est. $100,000.

Ont., Sandwich—Essex Co. Good Roads Com., 2 mi. concrete paving Riverfront Rd., to S. J. West & Co., Sandwich St. E., $54,000. Engrs. est. $60,000.

Quebec — J. L. Boulanger, Dept. Rds., Quebec, oiling 180 mi. roads from Quebec to Montreal and National roads, to Imperial Oil Ltd., Principal St., St. Laurent, $131,873. Noted Apr. 10.

Industrial Works

PROPOSED WORK

Me., York—Storehouse—York Mfg. Co., having plans prepared by Lockwood, Greene & Co., engrs., 24 Federal St., Boston, Mass., for extension to storehouse 5.

N. Y., Binghamton—Creamery—Cloverdale Creamery Co., 60 Exchange St., plan 2 story and basement, 40 x 120 ft., tile and concrete, Moore and Jackson Sts., to exceed $60,000.

N. Y., Binghamton — Factory — The Chenango Silk Co., 265 Robinson St., plans to build concrete, brick and steel. $70,000.

Pa., Franklin—Plant—Franklin Valveless Engine Co. plans rebuilding plant recently damaged by fire. $150,000.

La., Shreveport — Warehouse — See "Floating Equipment, etc.," under "Unclassified."

Tenn., Nashville—Plant—Swift & Co., 76 West Monroe St., Chicago, Ill., soon takes bids 4 story, brick, concrete and steel, 800 4th Ave. N. $85,000. Private plans.

Ky., Louisville — Plant — Englehardt & Sons, 805 West Main St. having plans prepared by A. G. Tafel, Coleman Bldg., 5 story, 80 x 100 ft., coffee roasting plant, 14th and Magazine Sts. To exceed $50,000. Noted May 22.

O., Cleveland—Factory—W. S. Tyler Co., C. Zimmerman, secy., 3613 Superior Ave., had plans prepared by G. S. Rider & Co., Century Bldg., 2 story and basement, brick and rein.-con., East 36th St. and Superior Ave. $150,000.

O., Cleveland—Factory—Adam Hoffman Co., 10522 Cedar Ave., having plans prepared by Hadlow, Hick & Co., Finance Bldg., 2 story and basement, 50 x 80 ft., brick, steel and concrete, 10522 Cedar Ave. $40,000. Noted May 15.

Ind., Batesville—Factory—Union Furniture Co., having plans prepared by M. Fisher, Brighton Bank Bldg., Cincinnati, O., 4 story and basement, 18 x 72 ft., steel, brick and timber. $50,000.

Ind., Indianapolis — Plant — Cornelius Printing Co., North Capitol Ave., having plans prepared by R. N. Edwards, engr., Union Trust Bldg., 1 story, 120 x 250 ft., rein.-con., brick and steel, West Washington St. $150,000.

Ind., Mt. Vernon—Mill—J. E. Kelly, plans 4 story hominy mill, rein.-con. $150,000. Private plans.

Ind., Richmond—Factory—F. and N. Lawn Mower Co., having plans prepared by J. Mueller & Co., Palladium Bldg., 4 story, 75 x 100 ft., rein.-con., brick and steel. $100,000.

Ind., Richmond — Laundry — Richmond Home Laundry Co., plans 1 story and basement, 57 x 157 ft., rein.-con., brick and steel, $45,000. Werking & Son, Amer. Trust Bldg., archt.

Wis., Milwaukee—Plant—Retailers Tallow Calf Skin Assn., c/o J. Hermann, 2322 State St., having revised plans prepared by M. Fernekes, 915 Chestnut St., 4 story, 58 x 90 ft., brick and concrete, plain foundation, Muskego St. $45,000. Former bids rejected. Noted May 15.

Kan., Lyons—Plant—Amer. Salt Co. plans evaporating plant. $1,000,000.

Mo., Columbia—Plant—Polar Wave Ice & Fuel Co., 3654 Olive St., St. Louis, soon takes bids 2 story and basement, rein.-con. and brick, here. $200,000. H. G. Clymer, Wainwright Bldg., St. Louis, archt.

Tex., Dallas—Oil Refinery—Amer. Refining Co., Staley Bldg., Wichita Falls, plans 140 x 300 ft., Alma and Wall Sts., here. $300,000. Engineer and architect not announced.

Tex., Eagle Lake—Mill—Industrial Cotton Mills, Inc., plans brick and rein.-con. plant. $250,000. B. H. Faber, Eagle Lake, archt. and engr.

Tex., Port Arthur—Plant—Gulf Refining Co. making plans 2 story, 110 x 260 ft., brick and concrete. $300,000. Owner plans to expend $1,700,000 within next 10 months for additional brick and concrete stills. Probably by day labor. J. W. Tyron, supt. Private plans.

Tex., San Angelo—Mill—C. A. Broome and associates plan woolen mill. $250,000. Engineer and architect not announced.

Colo., Colorado Springs — Plant — Voted $1,250,000 bonds, purchase or build municipal electric light and power plant.

Colo., Denver — Warehouse, etc. — Westinghouse Electric Mfg. Co., Union Bank Bldg., Pittsburgh, Pa., making plans warehouse, service facilities and repair shops, here. $500,000.

Wash., Tacoma — Power House — City Light Dept. soon takes bids power house, part of Cushman Power Project. $250,000. J. L. Stannard, engr. in charge.

Calif., Glendale—Factory—Amer. Concrete Co., 1147 Glendale Blvd., Los Angeles, plans concrete factory, here. To exceed $40,000, incl. equipment.

Calif., Oakland—Shops, etc.—Union Constr. Co., Key Route Fill, plans rebuilding ship yard buildings, incl. pattern, machine shops, etc., recently destroyed by fire.

Que., Quebec — Plant — Canadian Wood Impregnating Co., Regina, Sask., plans to purchase site for plant. $200,000.

Ont., Cobalt—Mill—Coniagas Mining Co., St. Catharines, plans rebuilding mill, here, recently destroyed by fire. F. D. Reid, genl. mgr.

Ont., Guelph — Factory — Canadian Diamalt Co. plans plant for manufacture of malt products. $150,000.

Ont., Toronto—Plant—Peerless Artificial Stone Co., Coxwell Ave., plans plant here. $150,000.

BIDS DESIRED

Mass., Springfield—Boiler House—June 20, at office of City Clerk, Administration Bldg., boiler house, Taylor St. yard, for Dept. Streets & Engineering. R. P. Marsh, supt.

Pa., Phila.—Dye House and Plant—June 17, by Ballinger Co., archts. and engrs., 12th and Chestnut Sts., 4 story, part basement and bridge, 94 x 266 ft., brick and steel, plain foundation, Marshall St. between Oakdale and Harold Sts., for Hardwick & Magee, 1200 Mark St. $400,000.

Pa., Phila.—Mill—June 13, by C. E. Wunder, archt., 1520 Locust St., 2 story and basement, 42 x 142 ft., brick, plain foundation, 19th St. and Hunting Park, for Wakefield Knitting Mills, Dell and Luzerne Sts. $45,000.

Mich., Detroit—Plant—June 16, by J. W. Reid, comr. Pub. Wks., City Hall, stationary asphalt plant, 6,000 sq.yd. 2 in. topping per 10 hr. day. G. Jerome, city engr. $150,000.

Ont., London—Factory—Richards Wilcox Canadian Co., Chelsea Green, taking bids 150 x 250 ft., hollow tile. $50,000. W. R Yendall, mgr.

BIDS RECEIVED

Calif., Merced — Power House — See "Dams."

CONTRACTS AWARDED

Mass., Pittsfield — Plant — The General Electric Co., 1 story, 90 x 400 ft. addition to plant, to J. R. Hampson Co., Pittsfield.

Mass., Worcester — Manufacturing — H. Mandell, c/o H. L. Meacham, archt., 571 Main St., 2 story, 60 x 125 ft., Foster St., to C. Rocheford, 58 Front St. Archts. est. to exceed $40,000. Noted Dec. 27, 1923.

Pa., Phila. — Factory — Rosenau Bros., Inc., Westmoreland St. east of 25th St., 1 story and basement, 70 x 200 ft., brick, plain foundation, to Bowden Constr. Co., 1935 Chestnut St. Archts. est. $60,000.

Ala., Birmingham—Plant—W. H. Kettig, 2747 Niazuma St., and others, 2 story, 150 x 200 ft. chemical plant, rein.-con., Inglenook suburb, to Inglenook Constr. Co., 4011 1st Ave., $400,000.

O., Cleveland—Factory—Industrial Machine Co., c/o H. L. Freeman, pres., 2160 Superior Ave., 1 story, 50 x 100 ft., brick and steel, East 47th St., to Hunting Constr. Co., Discount Bldg. Archts. est. $40,000.

O., Cleveland—Factory—Willard Storage Battery Co., c/o P. H. Voth, engr., East 131st St. and St. Clair Ave., 4 story, 40 x 100 ft., brick and rein.-con., East 131st St., to A. A. Lane Co., 1869 East 55th St. Archts. est. $100,000. Noted Mar. 20.

Ind., Indianapolis—Plant—Kingan Packing Co., West Maryland St., will build 9 story and basement, 80 x 145 ft., rein.-con., and brick, West Washington St., by day labor. $300,000. Private plans.

Ill., Granite City — Warehouse — Natl. Lead Co., International Life Bldg., St. Louis, Mo., general contract, 4 story, 80 x 160 ft., rein.-con. and brick, here, to Fruin-Colnon Constr. Co., Merchants-Laclede Bldg., St. Louis, Mo. Archts. est. $75,000.

Tex., Houston—Mill, etc.—Houston Textile Mills, 1 story, 139 x 388 ft., main mill building, 100 x 125 ft. warehouse, brick boiler house, to Standard Constr. Co., West Bldg.

Industrial **Works (Continued)**

Minn., **Detroit** — Power House — City, 1 story, 40 x 120 ft. brick addition, to A. S. Randolph, Detroit, $24,415; two 255 hp. watertube boilers, to J. G. Robertson, 2542 University Ave., St. Paul, $33,000. Noted May 22.

Mo., **Springfield** — Plant — Springfield Packing Co., general contract, 3 story, 100 x 150 ft., to G. F. Hentschel, Springfield. Archts. est. $50,000. Noted Apr. 10.

Tex., **Houston** — Mill — Houston Cotton Mills Co., B. Clayton, pres., Chamber of Commerce Bldg., (first unit) brick, concrete and steel, East Montgomery Rd., to Standard Constr. Co., Humble Bldg., $175,000.

Calif., **Los Angeles** — Printing Plant — Fletcher-Ford Co., 1300 East 1st St., will build 2 story, 150 x 150 ft., brick and heavy timber, Grand Ave., by day labor. Private plans.

Buildings

PROPOSED WORK

N. H., Manchester — Museum — Art Museum, R. J. Pearsley, chn. Bd. of Trustees, 638 River Rd., having plans prepared by R. C. Sturgis, 120 Boylston St., Boston, Mass., 2 story and basement, 80 x 130 ft., rein.-con., brick and marble. To exceed $200,000.

Mass., Barnstable—Office, etc.—K. Karris, Main St., plans office building and filling station, Main St. $250,000. Private plans.

Mass., Boston—Hospital—Massachusetts General Hospital Inc., raising $200,000 for enlarging and improving Fruit St. J. R. Macomber, engr., chn. of com.

Mass., Cambridge — College — Harvard University, raising funds for chemical laboratories. $500,000 (part of $3,000,000 project). W. Lawrence, chn. Noted May 22.

Mass., Dorchester (Boston P. O.) — Court House—City of Boston plans court house, Washington St. and Melville Ave., here. Mulhall and Holmes, 33 Newbury St., Boston, archts. $200,000.

Mass., East Boston (Boston, P. O.)—School House Dept., Boston, having plans prepared by J. M. Gray Co., 175 High St., Boston, 3 story and basement, 160 x 225 ft., rein.-con., and brick, White St., here. $1,300,000.

Mass., Everett (Boston P. O.)—School—City of Boston plans elementary school, Shawmut Ave. and West Concord St., here. To exceed $150,000. T. P. Glynn, chn.

Mass., Lowell—Court House—Commonwealth of Massachusetts, Middlesex Co., Cambridge, having preliminary plans prepared by C. R. Greco, 11 Beacon St., Boston, rein.-con. and brick, Hurd St., here. $200,000.

Mass., Medford (Boston P. O.)—Hospital—City plans Nurses Home addition to Lawrence Memorial Hospital. $150,000. Engineer and architect not selected.

Mass., Milton (Boston, P. O.)—Church—Mattapan Methodist Epicopal Church plans to raise $150,000 for new church, Blue Hills Parkway near Brooks St. T. Hancock, chn.

Mass., Wakefield—High School—Supt. of Schools having preliminary plans prepared by F. I. Cooper Corp., 172 Tremont St., Boston, brick addition, Franklin St. $150,000.

R. I., Pawtucket—Church and Rectory—St. John the Baptist Church, c/o A. Graton, pastor, having revised plans prepared by W. F. Fontaine, 285 Main St., Woonsocket, 1 story, 75 x 180 ft., brick and steel, Woodlawn Sect. $350,000. Noted Mar. 13.

Conn., Enfield — High School — School Com., having plans prepared by F. I. Cooper Corp., 172 Tremont St., Boston, 1 and 2 story and basement, 55 x 180 ft. and 70 x 150 ft., brick, Main St. $250,000.

N. Y., Buffalo—Store—J. N. Adams & Co., 389 Main St., plans rein.-con., brick and steel, Main St. to exceed $200,000.

N. Y., Canton—School—Election June 19, $185,000 bonds, new school. D. D. Kieff, Flower Bldg., Watertown, archt. Address H. M. Barber, city clk.

N. Y., Plattsburgh—Theater and Office—W. E. Benton, Saratoga, had plans prepared by W. H. Vaughan, Saratoga, 64 x 122 ft., stone, steel and brick, here. $150,000.

N. Y., Schenectady—Hospital—Ellis Hospital, Nott St., having plans prepared, 4 story, 44 x 124 ft., addition to wing C, and 4 story addition to Whitemore Home for nurses, brick and steel, plain foundation. $225,000. Engineer and architect not selected.

N. Y., Schenectady — School — R. L. Bowen, city archt., has prepared sketches, 12 room, Bellevue School. $170,000.

N. Y., Syracuse — Office — Chamber of Commerce plans new building or addition to present building, South Warren St., to exceed $150,000. F. V. Bruns, pres.

N. Y., Watertown—Convention Hall—Media Temple, Mystic Shrine plans convention hall. $400,000. Address F. L. Moore, chm. building com.

N. J., Camden—Detention House—Bd. Chosen Freeholders, Camden Co., Court House, Camden, plans 2 story and basement, 50 x 200 ft. detention house, plain foundation, Pensauken Twp. $150,000. Lackey & Hettle, 5 Hudson Ave., archts.

Pa., Hazelton—Church—St. Gabriels Roman Catholic Congregation rejected bids 1 story and basement, 66 x 150 ft., brick and steel. Plans will be revised. Sheridan & Knoblock, Merkle Bldg., archts. Noted May 15.

Pa., Phila.—School—Wm. Penn Charter School, 12th and Chestnut Sts., having plans prepared by Zantzinger, Borie & Medary, Otis Bldg., group buildings, West School Lane, Germantown.

Md., Baltimore—College—Mayor and City Council, City Hall, having plans prepared by Buckler & Fenhagen, 325 North Charles St., 4 story, stone, 33rd St. $2,000,000. Engineer not selected. Noted May 21.

W. Va., Morgantown—City Hall—Election June 26, 150,000 bonds for city hall. P. C. White, city clk.

Fla., Panama City—Hotel—St. Andrews Bay Hotel Co., plans hotel, Harrison and 1st Sts. F. A. Black, secy. $400,000.

Fla., Jacksonville—Hotel—J. L. Tallevost and Associates, c/o H. L. Anderson, Atlantic Natl. Bank Bldg., plan 10 story, Hogan and Adams Sts. $750,000.

La., New Orleans — Hotel — Guarantee Development Co., Roosevelt Hotel, having revised plans prepared by Favrot & Livaudais, archts. Hibernia Bank Bldg. and Toledano, Wogan & Barnard, associated archts., Title Guarantee Bldg., addition to Roosevelt Hotel. $2,000,000. Noted May 29.

Ky., Bowling Green—Hospital—City having plans prepared by R. E. Turbeville, Price Bldg., 3 story and basement, L shaped, 60 x 175 ft., 8th and Park Sts. $150,000.

Ky., Lexington—Hospital—Julius Markes Sanitarium plans tuberculosis sanitarium, Georgetown Rd., near here. $150,000. Frankel & Curtis, Lexington, archts.

Ky., Louisville—Home and Hospital—Kosair Assn., 212 West Bway. having plans prepared by Joseph & Joseph, Francis Bldg., 1 and 2 story and basement home for crippled children, Eastern Parkway. $150,000. Noted Oct. 25.

Ky., Williamsburg—Church—Daugherty & Gardner, archts., Stahlman Bldg., Nashville, Tenn., takes bids in about 6 weeks, brick and stone, here, for Williamsburg Baptist Church. $150,000.

Ky., Wilmore—Dormitory—Asbury College soon takes bids rebuilding girls dormitory. $150,000. H. A. Churchill and J T. Gilling, Lexington, archts. Noted May 1.

O., Canton—Hotel—J. H. Thompson Hotels Co., Leader News Bldg., Cleveland, plans hotel, here. $1,500,000.

O., Canton—Office and Mercantile—C. Bowen, having plans prepared by Structural Eng. Co., 1st Natl. Bank Bldg., 3 story and basement (ultimately 6 story), 22 x 168 ft., steel, limestone, gray brick, and concrete, North Market St. $150,000.

O., Canton—Office—Canton Building Co., plans 6 story and basement, 23 x 200 ft., (66 ft. at rear), brick, steel and concrete, Market and 2nd Aves. $250,000. I. S. Sweaney, pres.

O., Cleveland — Apartment — K. Green, 1931 East 89th St., had plans prepared by A. W. Harris, Discount Bldg., 3 story and basement, 42 x 150 ft., brick, 2626 North Morland Blvd. $300,000.

O., Cleveland—Commercial—Davis & Farley Co., Davis and Farley Bldg., plans 3 story, brick, steel and concrete, Prospect Ave. $150,000. Engineer and architect not selected.

O., Cleveland—Commercial and Temple—Brooklyn Masonic Temple Co., 3415 West 25th St., having preliminary plans prepared by D. Farnam, 608 Caxton Bldg., 4 or 5 story, brick, steel and concrete, West 25th St. and Garden Ave. $400,000.

O., Salem—Office and Store—C. A. McKinley Co. plans 6 story and basement, 50 x 150 ft., steel and concrete, 105-109 Main St. $175,000.

Ind., Evansville — Hospital, etc. — Bd. Comrs. Vanderburg Co., plans election soon $655,000 bonds for hospital, nurses home and power plant for Boehne Tuberculosis Camp.

Ind., Indianapolis — Store — Selig Dry Goods Co., 20 West Washington Ave., plans 7 story and 2 basements, rein.-con., and brick, Washington Ave., $500,000. Vennegut, Bohn & Mueller, Indiana Trust Bldg., archt.

Ind., Terre Haute—Office—Citizens Gas & Fuel Co., 636 Wabash Ave., plans 4 story and basement, rein.-con., brick and steel. $250,000. Shourds-Stoner Co., Tribune Bldg., archt.

Mich., Detroit—Apartment—T. Davidson, 725 Detroit Savings Bank, having plans prepared by F. W. Wiedmaier, 51 Campau Bldg., 4 story and basement, irregular shape, concrete, brick and steel, plain foundation, Woodward Ave. and Covington Dr. $400,000.

Mich., Detroit—Club House—Wolverine Athletic Club, 1156 Penobscot Bldg., having preliminary plans prepared by Bonnah & Chaffee, 528 Farwell Bldg., 21 story and basement, 350 room, rein.-con., brick and steel, Bates St. and Cadillac Sq. $3,000,000.

Mich., Detroit — Hospital and Nurses Home—Pub. Welfare Comn., Clinton and Raynor Sts., having preliminary plans prepared by Carey & Esselstyn, 602 Hoffman Bldg., 3 and 4 story, rein.-con., brick and steel, plain foundation, St. Antoine St. $900,000.

Mich., Detroit — Office — United States Mortgage Bond Co., 312 Majestic Bldg., having plans prepared by H. Angell, 607 Free Press Bldg., 9 story and basement, about 60 x 80 ft., concrete, brick and steel, plain foundation, Shelby St. About $1,000,000.

Mich., Detroit—Office—Wormer & Moore, 2231 Park Ave., having preliminary plans and sketches prepared about 6 story, concrete, brick and steel, plain foundation, Park Ave. and Elizabeth St. $500,000. Engineers and architects names withheld.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., having plans prepared by Verner, Wilhelm & Molby, 602 Book Bldg., 1 story and part basement, 54 rooms, concrete, brick and steel, plain foundation, Lawley and Dequindre Aves. $350,000.

Mich., Echo City (Royal Oak, P. O.)—School—Bd. Educ., had plans prepared by F. D. Madison, Royal Oak, 2 story and part basement, 15 room, rein.-con. and brick, plain foundation, Pierce St. $225,000.

Ill., Chicago—Fine Arts—South Park Dist. voted $5,000,000 bonds restoring and reconstructing Fine Arts Building, in Jackson Park.

Wis., Madison—Fraternity—Alpha Sigma Phi, 619 North Lake St., having plans prepared by R. C. Velguth, 211 Grand Ave., Milwaukee, 2 story and basement, concrete and stone, plain foundation. $150,000.

Kan., Great Bend — High School — Bd. Educ., having plans prepared by T. W. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, 2 story, 116 x 144 ft., rein.-con. and brick, plain foundation. $200,000. Noted Apr. 1.

Kan., Winfield—Hospital—City, c/o H. H. Hanlen, city clk., plans 2 story hospital. $200,00. H. P. Haynes, Winfield, engr.

Neb., Lincoln—Theatre—Capitol Enterprises, 503 Davidson Bldg., Kansas City, Mo., soon takes bids rein.-con., brick, stone and marble, N St., here. $500,000. Private plans.

Mo., St. Louis—Church—J. H. Lynch, archt., Dolph Bldg., revising plans 2 story and basement, rein.-con., brick and stone, Kingshighway-Cote Brilliante Sts., for Salem Methodist Episcopal Church. $150,000.

Mo., St. Louis — Office — Southwestern Bell Telephone Co., Bway. and Locust St., soon takes bids 19 story and basement, rein.-con., steel, stone and brick, 10th, 11th, Pine and Chestnut Sts. $8,000,000. Mauren, Russell & Crowell, Chemical Bldg., archts.

Mo., St. Louis—Y. M. C. A., c/o B. W. Moser, pres., 6186 McPherson Ave., soon takes bids, on Central, West End, South St. Louis and Carondelet buildings, additions to Railroad and Negro Y. M. C. A., Meramec Valley outing camp, North Side addition, etc. $3,000,000. Noted Feb. 28.

Mo., Springfield—Dormitory, etc.—Drury College having preliminary plans prepared, 2 and 3 story, dormitory, library and conservatory of music, brick, stone and concrete. $400,000. Private plans.

Tex., Dallas—Department Store—A. Harris & Co., Akard and Elm Sts., plans 6 or 7 story, brick and concrete, 25 x 50 x 100 ft., brick and concrete, Elm St. $150,000. Engineer and architect not announced.

Tex., Lubbock—School—Bd. Educ. making plans 3 story and basement, 64 x 164 ft., brick and stone. $150,000. Peters & Haynes, Leader Bldg., engrs. and archts.

Tex., San Antonio — Dormitory, etc. — Westmoreland College (Methodist Episcopal Church), 726 West Waco St., plans to raise $250,000 for 2 to 3 story dormitory, also $150,000 for gymnasium, brick or stone and concrete. E. R. Stanford, pres.

Tex., Wichita Falls—Club—B. P. O. E. 1155, having plans prepared by C. J. Pate, 1005 City Natl. Bank Bldg., and J. M. Schaefer, 1208 Staley Bldg., 3 story and basement, 50 x 150 ft., brick, stone, steel

Buildings (Continued)

and terra cotta, 9th and Lamar Sts. $160,000.

Okla., Bartlesville—High School—Voted $360,000 bonds for 3 story and basement. W. J. Mullins, city clk. Engineer and architect not selected.

BIDS DESIRED

Mass., Attleboro—School—June 11, by L. A. Fales, supt. of schools, 2 story, 60 x 90 ft. addition to Richardson School, brick, stone and steel. $150,000.

Mass., Brighton (Boston, P. O.)—Apartment—York Apartments, Inc., c/o W. L. Minor, archt., 60 Pemberton Sq., Boston, taking bids (1st of 8 units) 3 story, 53 x 90 ft. brick and stone, Allston St., here. $350,000.

Conn., Danbury—June 20, by Danbury Natl. Bank, 1 story, 50 x 80 ft., concrete, stone and steel, plain foundation, Main St. $200,000. Sunderland & Watson, 248 Main St., archts.

Conn., Stratford, (Bridgeport, P. O.)—High School—E. W. Mohr, secy. School Com., taking bids 1 and 2 story and basement, 200 x 200 ft., brick and stone, North Parade St. $250,000. F. I. Cooper Corp., 172 Tremont St., Boston, archt.

N. Y., Jamestown—Church—First Presbyterian Church taking bids, 2 story and basement and tower, 60 x 115 ft., rein.-con., brick and stone. $200,000. Noted Sept. 13, 1923.

N. Y., Lowville — School — June 15, by Bd. Educ., new school. $500,000. Address S. B. Richardson, chn. building comn.

N. J., Elizabeth—Administration—June 16 (extended date), Union Co. Park Comn., 286 North Broad St., administration building No. 6, Warinanco Park. C. G. Poggi, 275 Morris Ave., archt.; adv. E. N.-R. June 12.

Del., Wilmington—Club House—Wilmington City Club, W. H. Fenn, Jr., chn. Building Comn., Dupont Bldg., will build 2½ story and basement, 58 x 177 ft., brick and stone, plain foundation, by separate contract. $200,000. E. W. Martin, and R. R. Neely, 2301 Spruce St., Phila., Pa., archts. Noted May 1.

Pa., Rosedale — High School — June 24, by Muhlenberg Twp. S. D., plans 2 story and basement, 50 x 120 ft. with two wings each 43 x 93 ft., brick and steel, plain foundation. Ritcher & Eiler, 147 North 5th St., Reading, archts.

Ky., Louisville—Hospital—June 24, by A. Loomis, archt., and Bd. Tuberculosis Hospital, at Todd Bldg., 1st unit of Waverly Hill Tuberculosis Sanitarium, 3 story, 50 x 480 ft., rein.-con. $700,000. Noted Nov. 29.

O., Canton—Exchange—June 23, by Ohio Bell Telephone Co., C. P. Cooper, pres., 4300 Euclid Ave., Cleveland, 3 story, 66 x 164 ft., brick, steel and concrete, here. $300,000. Hubbell & Benes, 4500 Euclid Ave., Cleveland, archts. Noted May 8.

O., Canton—Store and Office—June 16, by C. E. Firestone, archt., Renkert Bldg., 5 story and basement, 66 x 100 ft., steel, brick and concrete, Tuscarawas and Cleveland Aves. W., for Cole-Brant Co., Canton. $200,000. Separate bids will be received for heating, etc.

O., Oberlin — Hospital — Allen Memorial Hospital of Oberlin College Group, taking bids 3 story, 43 x 102 ft., brick, steel and concrete. $200,000. C. Gilbert, 244 Madison Ave., New York City, archt.

O., Sylvania—High School—June 18, by Bd. Educ., 2 story and basement, 71 x 134 ft., brick, steel and concrete. $175,000. T. D. McLaughlin and associates, 610 Savings Bldg., Lima, archts. Noted June 5.

O., Youngstown — Hotel — Ohio Hotel Operating Co., Boardman and Hazel Sts., taking bids 4 story, 120 x 156 ft., brick and steel addition. $350,000. Stanley & Scheibel, 1301 Wicks Bldg., Cleveland, archts. Noted Feb. 7.

Mich., Detroit—Apartment—Beckett & Akitt, archts., 406 Temple Bldg., taking bids and open same about June 20, 3 story and basement, brick and steel, plain foundation, Grand River Ave., for G. H. Thompson, 3269 Pingree Ave. $200,000.

Mich., Detroit—Manastery—Donaldson & Meier, archts., 1312 Penobscot Bldg., taking bids and open same about June 20, 2 story and basement, 125 x 138 ft., brick, steel and stone, plain foundation, Dix and Junction Aves., for Holy Redeemer Church, 1721 Junction Ave. $200,000.

Mich., Detroit—Schools—June 16, by Bd. Educ., 1354 Bway. Ave., 2 story and part basement, 82 x 171 ft. with 31 x 64 ft. wing, concrete, brick and steel addition to McCullock School, plain foundation, Hazelridge St., also 2 story and part basement, 82 x 171 ft., with 31 x 64 ft. wing, concrete, brick and steel addition, plain foundation, Hamburg Ave. Malcolmson & Higginbotham, 1217 Griswold St., archt.

Mich., Hamtramck—High School—June 17, by S. A. Majewski, secy. Bd. Educ. Junior High School, 2 story and basement, 150 x 180 ft. rein.-con., brick and steel, and bridge connecting with present school, Hewitt Ave. J. G. Kastler & Co., 523 Detroit Savings Bank, Detroit, archts.

Mich., Pontiac—School—June 17, by R. Hazelton, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel addition, plain foundation, Sanford and Midway Sts. $150,000. Fisher Bros., 24 West Huron St., archt.

Mich., River Rouge—Church—June 20, by Stahl & Kinsey, archts., 628 McKerchey Bldg., Detroit, 2 story and basement, 110 x 130 ft. brick and steel, plain foundation, for River Rouge Methodist Episcopal Church. $150,000.

Ill., Lake Forest—Inn—Lake Forest Inn, Inc., c/o W. A. Morrow, archt., 30 North Michigan Ave., Chicago, taking bids masonry and carpentry work for 4 story and large basement, 40 x 225 ft., brick and rein.-con., Deerpath Rd., here. $300,000.

Wis., Appleton — Church — June 14, by Childs & Smith, archts., 720 North Michigan Blvd., Chicago, Ill., 2 story, 60 x 177 ft., brick and stone, plain foundation, here, for First Methodist Congregation. J. Holmes, 737 Lawrence St., pastor. $250,000. Noted May 15.

Wis., Milwaukee—Apartment—Rosman & Wierdsma, 490 Bway., taking bids, 4 story and basement, 46 x 136 ft., brick and concrete, plain foundation, Grand Ave. $150,000. Owner's name withheld.

Wis., Milwaukee—Dormitory—R. Messmer & Bro., archts., 221 Grand Ave., taking bids 3 story and basement, concrete and brick, plain foundation, 31st and State Sts., for Concordia College, 3127 State St. $150,000. Noted Dec. 13.

Wis., Milwaukee—Store—June 20, by Voelz & Siebert, 373 Bway., 2 story and basement, 110 x 139 x 300 ft., brick and concrete, plain foundation, Forest Home and Mitchell Sts., for G. A. Butler, 603 Mitchell St. $400,000. Noted Feb. 14.

Wis., South Milwaukee—Store—R. B. Williamson, archt., 405 Bway., Milwaukee, taking bids 3 story and basement, 62 x 120 ft., brick and tile, plain foundation, here, for Bettinger & Sons. $150,000.

Ia., Indianola—High School—June 20, by C. D. Proudfoot, secy. Bd. Educ., 2 story, 147 x 173 ft., rein.-con., brick and steel, plain foundation. $150,000. Keffer & Jones, 202 Masonic Temple, Des Moines, archts. Noted Feb. 28.

Mo., St. Louis—School—June 20, by Bd. Educ., 911 Locust St., Elias Michael school for crippled children, 2 story and basement, brick, rein.-con. and stone, Euclid St. $202,650. R. M. Milligan, c/o Bd. Educ., engr. and archt.

Calif., Palo Alto — Theatre — Weeks & Day, archts., 315 Montgomery St., San Francisco, taking bids rein.-con., University Ave., here, for Palo Alto Theatre Co., c/o architects. $150,000. Noted Dec. 20, 1923.

Calif., Yreka—Hotel—L. L. and W. J. Weaver, Albany Hotel, Albany, Ore., will build 3 story concrete or brick, here. $150,000. Work will be done by separate contracts under supervision of owner. Tourtelotte & Hummel, Failing Bldg., Portland, Ore., archts. Noted June 5.

BIDS RECEIVED

Mo., Koch—Employees, etc.—Bd. Pub. Serv., 208 City Hall, St. Louis, general contracts, 3 story and basement, employees building, and 2 story and basement kitchen, on Robert Koch Hospital Grounds, from E. A. Steininger, Laclede Gas Light Bldg., $201,712 and $58,836 respectively. Noted May 8.

CONTRACTS AWARDED

Mass., Boston — Mercantile — Governor Sq. Building Co., 120 Franklin St., 3 story, 50 x 400 ft., rein.-con., brick and stone, Newbury and Brookline Sts., to National Eng. Corp., 60 Federal St. Archts. est. $300,000.

Mass., Malden (Boston P. O.)—School—City, 2 story and basement, 120 x 215 ft., rein.-con. and brick, Cross St., to Leighton-Mitchell Co., 99 Chauncey St., Boston, $384,291.

Mass., New Bedford — Home — Sacred Heart Home, concrete, brick and steel, plain foundation, Austin St., to L. Bolduc & Son, 579 Middle St., Fall River, $200,000.

Mass., Springfield—Bank—H. J. Perkins Co., 435 Dwight St., altering and constructing addition, Lyman St., to Fred T. Ley & Co., Inc., 145 State St. Archts. est. to exceed $150,000.

Mass., West Springfield (Springfield P. O.)—Monastary and Retreat House—Passionist Fathers, Monastery St., West Hoboken, N. J., 4 story, 60 x 310 ft., concrete, stone and steel, here, to J. G. Roy & Son Co., 21 Silver St., Springfield, $450,000.

Conn., Hartford—School—School Bd., 3 story and basement, 85 x 156 ft., brick and economy stone, plain foundation, Vine St., to S. C. Poriss Co., 54 Church St., $213,017.

N. Y., Binghamton—High School—Bd. of Contr. & Supply, East Junior High School, brick, stone, concrete and steel, Broad Ave. and Robinson St., general contract, to B. Klein, 29 Highland Ave., $365,485. Noted Apr. 24.

N. Y., Brooklyn — Apartment — Fourth Ave. Court Constr. Co., c/o A. J. Simberg, archt., 2113 62nd St., will build brick and steel, plain foundation, 4th Ave. between 74th and 75th Sts., by day labor $1,000,000.

N. Y., Buffalo—Apartment—W. Parke, genl. mgr. Parke Apartments, 10 story, 23 Gates Circle, to H. L. Stevens & Co., 522 5th Ave., New York, about $2,000,000.

N. Y., Troy—School—Rensselaer Polytechnic Institute, 3 story and basement, brick and steel, plain foundation, 15th St., to Amsterdam Building Co., 138 East 44th St., New York City, $264,093. Noted Feb. 21.

Pa., Altoona—Store—Silverman Bros., 1322 12th Ave., 5 story and basement, 60 x 120 ft., steel, plain foundation, to C. Singiser, Chamber Commerce Bldg., $300,000. Noted Feb. 28.

Pa., Mahanoy City—Theatre—Chamberlain Amusement Enterprise, Inc., Shamokin, 3 story and basement, 70 x 161 ft., brick and steel, plain foundation, Main and Market Sts., here, to Stofflet & Tillotson, Wesley Bldg., Phila., cost plus percentage basis. Archts. est. $300,000. Noted Mar. 31.

Pa., Phila. — Apartment — Twenty-one thirty Locust St. Corp., c/o Hodgens & Hill, archts., 130 South 15th St., 4 story and basement, 42 x 100 ft., brick and steel, plain foundation, to Barnet Constr. Co., Walnut and Juniper Sts.

Pa., Phila. — Church — St. Francis of Assisi, J. D. Nevin, pastor, Greene and Logan Sts., 1 story and basement, 80 x 100 x 164 ft., steel and stone, plain foundation, to D. W. O'Dea, 5th and Lindley Sts. Archts. est. $500,000.

Pa., Phila.—Recreation—City, general contract George A. Ware recreation center, 1 and 2 story and basement, 80 x 259 ft., brick and steel, plain foundation, to S. S. Lewis, Real Estate Trust Bldg., $136,478. Noted May 15.

Md., Baltimore — High School — Mayor and City Council, City Hall, Gwynns Falls Junior High School, 3 story, rein.-con., and brick, plain foundation, Hilton St., to J. H. Miller, Inc., Eutaw and Franklin Sts., $917,000. Noted June 5.

N. C., Durham—Church—Trinity Church Society, R. L. Badwin, chn. Building Comn., church, to Consolidated Constr. Co., Durham. Archts. est. $300,000.

Ala., Birmingham — Hotel — Redmont Hotel Co., Atlanta, Ga., 14 story, rein.-con., 5th Ave., to Smallman-Brice Constr. Co., 1115 Avenue E., $1,250,000. Noted May 8.

O., Cleveland—Apartment—Shelton Apartment Co., c/o Braverman & Havermaet, archts., 6 story and basement, brick, steel and concrete, East 102nd St., to S. W. Emerson Co., 1836 Euclid Ave., $550,000.

O., Cleveland—Commercial and Garage—Abrams Realty Co., c/o L. Abrams, Engineers Bldg., 1 and 2 story, 116 x 240 ft., brick, steel and concrete, East 79th St. and Lexington Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $175,000.

O., Cleveland — Commercial, Club and Office—Union Mortgage Co., c/o E. C. Daonst, secy., Natl. City Bldg., 2 story, 96 x 369 ft., brick and rein.-con., East 6th St. and St. Clair Ave., to Craig-Curtiss Co., 4614 Prospect Ave. Archts. est. $400,000. Noted June 5.

Mich., Highland Park (Detroit P. O.)—Hospital and Nurses Home—Highland Park General Hospital, general contract 3 and 4 story, rein.-con., brick and steel addition, plain foundation, to Corrick Bros., 507 Owen Bldg., Detroit, $200,000.

Mich., National Mine—High and Grade School—F. Moody, secy. Bd. Educ., Tilden Twp., 2 story and basement, 96 x 200 ft., concrete, brick and tile, plain foundation, to Foster Constr. Co., 114 Grand Ave., Milwaukee, Wis. Archts. est. $190,000. Noted May 15.

Buildings (Continued)

Wis., Racine — Church — St. Patricks Congregation, W. F. McCarthy, pastor, 1199 Douglas Ave., 2 story, 123 x 145 ft., brick and stone, plain foundation, to Barry, Byrnes & Ryan, 104 South Michigan Blvd., Chicago, Ill. Archts. est. $150,000. Noted Apr. 17.

Wis., Whitewater—School—Bd. Normal Regents, W. J. Kettle, secy., Madison, 2 story and basement, 60 x 250 ft., rein.-con., brick and steel addition, plain foundation, here, to Schafer & Olson, Chippewa Falls. Archts. est. $175,000. Contractor desires sub-bids on all contracts.

Wis., White Fish Bay—Grade School—School Dist. No. 1, W. A. Klatte, clk., 2 story and basement, brick and tile addition, plain foundation, to B. Wilke, 1011 Island Ave., Milwaukee. Archts. est. $150,000. Noted May 1.

Ia., Tipton — School — Bd. Educ., C. Miller, secy., 2 story and basement, rein.-con., brick, tile and stone, to G. Lanning Constr. Co., Oskaloosa, $179,800. Noted May .

Minn., Minneapolis—Hospital—State Bd. Control, St. Paul, general contract 3 story, basement and sub-basement, rein.-con., brick and tile, State U. to L. Fleisher Co., 505 Plymouth Bldg., $265,000. Noted May 29.

Mo., St. Louis — Apartment — Mardyke Investment Co., c/o contractor, 6 story and basement, rein.-con., brick, terra cotta, tile and limestone, Skinker and McPherson Sts., to Dougherty-Sheehan Real Estate Co., 721 Chestnut St.

Tex., Abilene—Bank and Office—J. M. Alexander, Radford Bldg., 7 story and basement, 75 x 100 ft., brick and concrete, 1st and Pine Sts., to Walsh & Burney, Abilene, $310,000. Noted May 22.

Tex., Dallas—Shop—W. A. Browning Mchy. Co., 3125 Elm St., 50 x 100 x 300 ft., brick and concrete, Exposition and Commerce Sts., to H. T. Apple, 2613 Warren St., $40,000 plus.

Tex., San Antonio—Office—San Antonio Builders Exch. Co., 206 Bedell Bldg., 9 story and basement and roof garden, brick, rein.-con. and stone, plain foundation, Pecan and St. Marys Sts., to J. Aiken, 802 Delmar St., $179,815. Noted May 29.

Wash., Seattle—Medical and Dental—Bradner Building Co., 18 story, 41 x 64 x 100 x 230 ft., rein.-con., fireproof, 5th and Westlake Sts., to A. W. Quist & Co., Hoge Bldg. Archts. est. $2,500,000.

Calif., Long Beach—School—Long Beach City School Dist., Whittier School, brick and concrete, general contract, to W. G. Reed, Pacific Southwest Bldg., $119,400. Noted June 5.

Que., Three Rivers—Station and Office—Ross & McDonald, archts., Belmont St., Montreal, 2 story, 32 ft. high, 80 x 25 ft., rein.-con., brick, steel and stone, Champflour St., here, to Thompson-Starrett Co. Ltd., Keefer Bldg., Montreal, for Canadian Pacific Ry. Co., Windsor St. Sta., Montreal. $300,000. Noted May 15.

Federal Government Work

PROPOSED WORK

Ky., Louisville—Castings, etc.—U. S. Engineer Office, P. O. Box 72, plans furnishing 72 tons steel and iron castings and forgings, 88 tons c.i. castings, for river wall valves, etc., for Locks 49 and 50, Ohio River.

H. T., Pearl Harbor—Steel Water Tank—Spec. 4992—Bureau Yards & Docks, Navy Yard, Wash., D. C., soon takes bids steel water tank at Naval operating base here.

BIDS DESIRED

N. Y., Buffalo—Dredge—June 20, by U. S. Engineer Office, U. S. dipper dredge Sodus; adv. E. N.-R. June 12.

Ind., Elkhart—Alterations, etc.—July 7, by Treas. Dept. at office Supervising Architect, Wash., D. C., alterations in present post office, etc., here; adv. E. N.-R. June 12.

Wyo., Laramie—Post Office—June 27, by Treas. Dept. at office Supervising Architect, Wash., D. C., remodeling and enlarging U. S. Post Office, here; adv. E. N.-R. June 12.

Mo., Boonville—Dike—June 28, by U. S. Engineer, Kansas City, 2,400 lin.ft. clump dike in Missouri River at Diana Bend, 5 mi. below here.

BIDS RECEIVED

Ill., Chicago—Dredging—U. S. Engineer Office, 537 South Dearborn St., dredging in North Branch Chicago River, 100,000 cu.yd. from Great Lakes Dredge & Dock Co., 104 South Michigan Ave., $0.44 per cu.yd. Noted Apr. 24.

Nevada—Roads—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., 10.64 mi. Austin-West Forest Highway, Lander Co., from W. J. Schmidt, 2010 Shattuck Ave., Berkeley, $36,160. Noted May 8.

California—Bridge—U. S. Engineer, Bureau Pub. Rds., Main St. San Francisco, rein.-con. bridge over Big Bear Lake Dam, San Bernardino Co., from F. Bryant, 286 West San Carlos St., San Jose, $32,162.

CONTRACTS AWARDED

Mass., Chelsea—Porches and Walks—Spec. 4965—Bureau Yards & Docks, Navy Dept., Wash., D. C., inclosed porches and concrete walks at Naval Hospital, here to F. J. Lowe & Co., 80 Boylston St., Boston, $8,500. Noted June 5.

N. Y., West Point—Stadium—E. T. Timberlake, quartermaster Military Academy, rein.-con. stadium, to seat 16,000, to Newport Constr. & Eng. Co., Newport News, Va. Archts. est. to exceed $150,000. Noted Apr. 24.

Pa., Aspinwall—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing U. S. Veterans Hospital, here to W. T. Trimble & Sons Co., 1719 Penna. Ave., $760,250; plumbing to Virginia Eng. Co., Inc., Newport News, Va., $191,806; electric work to Michaels & Co., Inc., Norfolk, Va., $39,620. Noted May 29.

W. Va., Huntington—Power House—U. S. Engineer Office, War Dept., Wash., D. C., fireproof power house at Dam 32, Ohio River, to H. Campbell & Sons, Huntington, $33,000. Noted May 8.

Fla., Jacksonville—Dredging—U. S. Engineer Office, dredging in St. Johns River, to Seaboard Dredging Co., Durkee Bldg., $72,000. Noted May 1.

Ky., Louisville—Pumps—U. S. Engineer, P. O. Box 72, furnishing 16 steam pumps 4 x 6 x 6 in., to Henry Vogt Mchy. Co., 1402 West Main St., $1,468. Noted May 29.

Ill., Great Lakes—Boilers—Spec. 4982—Bureau Yards & Docks, Navy Dept., Wash., D. C., resetting boilers at Naval Training Sta., to Fort Dodge Boiler Wks., 311 2nd Ave., S., Ft. Dodge, Ia., $11,352. Noted June 5.

Mo., Liberty—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, 62 x 64 ft., brick and tile post office, here, to W. McDonald Constr. Co., Odd Fellows Bldg., St. Louis, $48,578. Noted Apr. 24.

Calif., San Diego—Hospital—Spec. 4955—Bureau Yards & Docks, Navy Dept., Wash., D. C., hospital at Naval Operating Base to R. McKee, 607 Commonwealth Bldg., $422,400. Noted May 8.

Unclassified

PROPOSED WORK

Playground—Brighton (Boston P. O.), Mass.—City of Boston plans playground at Oak Sq., here. $50,000. F. H. Fay, chn.

Underground Station—Boston, Mass.—City plans new station in Cambridge tube at Cambridge and Charles St. $800,000. E. R. Springer, Transit Dept., 1 Beacon St., engr.

Floating Equipment, etc. — Shreveport, La.—C. E. Smith, city engr., completed plans and submitted same to L. E. Thomas, mayor, for following improvements to River Terminals and floating equipment, etc., 2 tow boats $320,000, 10 barges $200,000, submerged dyke (Bossier side) $40,000, 12 ft. piling (City side) $50,000, 100,000 sq.ft. bank paving $20,000, landing platform $5,000, warehouse $30,000, 4 conveyors $30,000, tracks and platforms $5,000, contingencies, etc. $30,000.

White Way—Louisville, Ky.—Bd. Pub. Wks., plans "White Way" on 5th St. from Jefferson to Market Sts., and on Liberty, Walnut, Guthrie and Chestnut Sts. To exceed $25,000. T. B. Crutcher, acting chn.

Retaining Wall—Cleveland, O.—Cleveland Union Terminal Co., Marshall Bldg., had plans prepared rein.-con., retaining wall 338 ft. long, 50 ft. high and 18 ft. wide at base, Ontario St. $400,000. H. D. Jouett, 323 Lakeside Dr., archt. and engr.

Track, Conveyors, etc.—Evansville, Ind.—Bedford-Nugent Co., Inc., Goodsell St., plans incline track, spur and sand conveyors, etc., at sand handling plant on bank of Ohio River, near here. $25,000.

Grand Stand — La Crosse, Wis. — La Crosse Interstate Fair Assn., c/o W. Doerfler, chn. building com., plans rein.-con. grand stand. $50,000. Engineer not selected.

Park Improvement, etc.—Cisco, Tex.—Making plans improving City Park, sidewalks, paving. $25,000 plus. Koch & Fowler, Central Bank Bldg., Dallas, engrs.

Lighting System — Claude, Tex. — Voted $35,000 bonds complete municipal lighting system. Noted May 15.

Slip Improvements—Port Arthur, Tex.—Attorney General approved $90,000 bonds for slip improvements. J. P. Logan, mayor.

Transmission Line—California—Southern Counties Gas Co., 3rd St., Pomona, appropriated funds for approximately 30,000 ft. 8 in. transmission line from Covina to Spadra. $55,000. Private plans.

Fire Alarm System—Los Angeles, Calif.—Had plans prepared fire alarm box system. To exceed $850,000. J. Griffin, city engr.

Street Lighting System—Los Angeles, Calif.—See "Streets and Roads."

Tunnel—San Francisco, Calif.—City and San Francisco Co. plan Eureka Valley Tunnel. $1,572,654 (city will pay $393,163 towards cost, balance by property owners under assessment plan). M. M. O'Shaughnessy, city engr.

Wharf, etc.—Little Current, Ont.—Regal Gasoline & Oil Co., Collingwood, plans wharf, warehouse and office here. $25,000.

Subway—Ottawa, Ont.—City plans concrete, rein.-con. and steel subway, 66 ft. wide, in Elgin St. $45,000. A. F. Macallum, city engr.

BIDS DESIRED

Mechanical Equipment, etc.—Brooklyn, N. Y.—June 30, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., mechanical equipment, plumbing, heating and ventilating apparatus, etc., in P. S. 28 (2nd part) Fulton St., in P. S. 180, 16th Ave., in P. S. 212, Bay 49th St., in P. S. 214, Pitkin Ave., in P. S. 215, Ave. S., in P. S. 216, Ave. X., and in P. S. 217, Newkirk Ave.

Mechanical Equipment, etc.—Long Island City, N. Y.—June 30, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, mechanical equipment, plumbing, heating and ventilating apparatus, etc., in P. S. 125, Nelson Ave., here.

Trucks—Long Island City, N. Y.—June 16, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., three 7½ ton motor trucks.

Mechanical Equipment, etc.—New York, N. Y.—June 30, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, mechanical equipment, plumbing, heating and ventilating apparatus, etc., in P. S. 77, Ward Ave., Bronx Boro.

Heating and Ventilating Apparatus — St. George, N. Y.—June 16, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in addition to P. S. 16, Daniel Low Terrace, here.

Heating System, etc.—Utica, N. Y.—June 18, by State Hospital Comn., Capitol, Albany, repairs to heating system in main building Utica State Hospital. S. W. Jones, Albany, state archt.; adv. E. N.-R. June 12.

Subway—Phila., Pa.—July 15, by H. E. Ehlers, dir. Dept. City Transit, 4 track subway in Broad St., etc.; adv. E. N-R. June 12.

Ornamental Street Lighting — Merrill, Wis.—June 17, by H. R. Allen, city clk., 1¾ mi. ornamental street lighting, incl. posts, wire and cable, fixtures, etc. $25,000. A. Deleglise, City Hall, engr. Noted June 5.

Wharf—Cockburn Island, Ont.—June 17, by N. Desjardins, acting secy. Dept. Pub. Wks., Ottawa, repairing wharf here, East Algoma Dist.

Breakwater — Collingwood, Ont. — June 17, by N. Desjardins, acting secy. Dept. Pub. Wks., Ottawa, reconstructing superstructure of portion of eastern breakwater, here, Simcoe Co.

Insulators — Melbourne, Victoria, Australia—Aug. 4, by R. Liddelow, secy. State Electricity Comn. of Victoria, 66,000 volt insulators, Spec. 24-25, for Morwell Power Scheme; adv. E. N.-R. June 12.

BIDS RECEIVED

Bleachers — Roxbury (Boston P. O.), Mass.—City of Boston, loaming and concrete bleachers at W. E. Carter playground, from J. A. Singarella, 110 High St., Boston, $17,950. Engrs. est. $25,000.

Plumbing and Heating, etc. — Long Island City, N. Y.—Dept. Educ., 500 Park Ave., New York, plumbing in P. S. 109, here, from T. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, $50,974; heating from Alvord & Swift, Grand Central Terminal, New York, $131,675; electric work, from Arc Electrical Constr. Co., 405 Lexington Ave., New York, $33,320.

Subway—Cincinnati, O.—Rapid Transit Comrs., City Hall, June 6, 5.3 mi. Sects. 7, 8 and 9, rapid transit line incl. 1,600 ft.

Unclassified (Continued)

subway, 415,000 cu.yd. earth excav., 20,200 cu.yd. rein.-con., 5,200 cu.yd. mass concrete, etc., from Hickey Bros., 4200 Spring Grove St., $1,089,157, engrs. est. $1,000,000; 1.6 mi. Sect. 7 rapid transit line, from Byrnes Conway Co., Bodman Bldg., $172,890; 1.47 mi. Sect. 9 rapid transit line, from Cannell-Conrad Constr. Co., Madison Rd. and Oakley Ave., $451,644, engrs. est. $407,692. Noted May 29.

CONTRACTS AWARDED

Fire Alarm System—New York, N. Y.— Dept. Pub. Welfare, Municipal Bldg., local fire alarm system in New York City Children's Hospital and Schools Dist., Randalls Island, to Jandous Electric Equipment Co., 109 West 31st St., $45,777. Noted Apr. 10.

Heating and Ventilating—Baltimore, Md. —Mayor and City Council, heating and ventilating in Gwynns Falls Park Jr. High School, Hilton St., to Enterprise Steam and Hot Water Heating Co., 619 West Franklin St., $128,870. Noted June 5.

Grand Stand—Marinette, Wis.—Lauerman Bros., Dunlap Sq., will build rein.-con. grand stand, plain foundation, by day labor. $30,000. Private plans.

Athletic Field—Milwaukee, Wis.—Grading, etc., field at South Division High School, to R. Gumz, 831 13th Ave., $27,500, field at Bay View High School, to C. F. Schneider, 678 2nd St., $12,455; concrete retaining walls, to Johns & Knuth, 1331 28th St., $26,500. Noted May 22.

Wire and Cable—Milwaukee, Wis.—Central Bd. Purchases, 81,000 ft. street lighting wire and cable, to Hazard Mfg. Co., 552 West Adams St., Chicago, Ill., $12,804.

Grand Stand—West Allis, Wis.—J. D. Jones, comr. State Dept. of Agriculture, Madison, north section rein.-con. addition to grand stand, at State Fair Park, here, to H. Danischefsky, 1484 Humboldt Ave., Milwaukee, $99,603. Noted May 22.

Grain Elevator — Dallas, Tex. — J. M. Lawther, 2425 Elm St., grain elevator, head house and bins, 34 x 34 x 144 ft., concrete, to Jones-Hettlesater Constr. Co., Municipal Bldg., Kansas City, Mo., $50,000.

Stadium — San Francisco, Calif. — City and San Francisco Co., stadium, incl. concrete retaining walls, concrete stairways, aisles and tennis courts, wooden seating, capacity 20,000, 70,000 cu.yd. excav. and fill, etc., to Palmer & McBryde, 503 Market St., $164,408. Noted Apr. 17.

Trolley Poles—San Francisco, Calif.— City and San Francisco Co., concrete trolley poles, to J. M. Smith, 759 Ocean Ave., $15,840. Noted Apr. 24.

Transmission Line — Ontario — Hydro-Electric Power Comn., 190 University Ave., Toronto, will build about 15 mi. transmission line from Blenheim to Highbanks and Erieau, by day labor. $25,000. F. A. Gaby, ch. engr.

Electric Distribution System—Toronto, Ont.—Toronto Electric Comrs., Yonge St., will expend $425,000 on electrical distribution system. Work will be done by day labor. Private plans.

Gas Distribution System—Toronto, Ont. —Consumers Gas Co., Adelaide St. E., will extend gas distribution system, by day labor. $500,000. A. Hewitt, mgr.

Material and Equipment

PROPOSED WORK

Stone Crusher—Floyd, N. Y.—Town Bd. plans to purchase stone crusher. $3,500 to $4,000. G. Roberts, town clk.

Fire Equipment — Beckley, W. Va. — See "Streets and Roads."

Tenn., Knoxville—Plans to purchase 10 ton roller with scarifier, street sweeper, 5 ton caterpillar tractor and grader. $15,000. L. Brownlow, city mgr.

Tanks—Houston, Tex.—Magnolia Petroleum Co., Magnolia Bldg., Dallas, plans 8 steel gasoline storage tanks, McKinney and Milby Sts., here. $25,000. Private plans.

Power Equipment—Cameron Falls, Ont. —Hydro Electric Power Comn., 190 University Ave., Toronto, soon takes bids equipment for units 5 and 6 of Cameron Falls Power Development on Nipigon River, each unit 12,000 hp. vertical with direct connected generator, switches, transformers, etc. $750,000. F. A. Gaby, ch. engr.

BIDS DESIRED

Castings, Asphaltic Cement, etc.—New York, N. Y.—June 12, by J. Miller, pres. Manhattan Boro., Municipal Bldg., steel castings, 500,000 gal. asphaltic cement, and 8,000 cu.yd. ¾ in. binder stone.

Bituminous Concrete and Sheet Asphalt —Trenton, N. J.—June 30, by State Hy. Comn., Broad St. Bank Bldg., 7,831 tons bituminous concrete and 465 tons sheet asphalt. A. L. Grover, secy.; adv. E. N.-R. June 12.

Graders—Williamsport, Pa.—June 12, by C. L. Jones, city councilman, 2 graders, one for light work and other for heavy work. M. C. Krause, Williamsport, engr.

Equipment—Detroit, Mich.—June 16, by Pub. Lighting Comn., J. S. Foley, secy., 138 East Atwater St., furnishing machinery and equipment for 18 railway substations. Smith, Hinchman & Drylls, 800 Marquette Bldg., engrs.

Cable—Minneapolis, Minn.—June 19, by F. S. Gram, city purch. agt., 42,292 lin.ft. cable for Fire Dept. electric signal system, standard specifications. N. W. Elsberg, city engr. June 5.

Paving Materials, etc.—St. Paul, Minn.— June 17, by H. W. Austin, city purch. agt., materials for paving roadways on each side of Earl St. Bridge between East 7th and Ross Sts., 1,370 sq.yd. 3 in. vertical fibre brick, 370 bbl. Portland cement, etc.; 25 tons pig lead, for Water Dept.

Grader—Marlin, Tex.—Falls Co. taking bids 7 ft. grader, mule hitch. J. P. Wehrung, co. engr.

Street Sweeper and Motor Trucks—San Francisco, Calif.—City and San Francisco Co., L. Leavy, Purch. Agt., in market for one Elgin street sweeper without pickup; six or more 2½ ton and seven 5 ton motor trucks, one 2½ ton motor truck with air compressor and one motor truck with eductor for sewer repair department, one 1½ ton truck for use of corporation yard.

BIDS RECEIVED

Paving Blocks — Boston, Mass. — Pub. Wks. Dept., City Hall, 1,500,000 granite paving blocks, from Rockport Granite Co., 31 State St., $144 per M. Noted May 22.

Slurry Tanks—Cementville (San Antonio P. O.), Tex.—W. E. Simpson, engrs. Natl. Bank Commerce Bldg., San Antonio, June 5, 10 rein.-con. slurry tanks, from Rayburn Eng. Co., St. Louis, Mo., for San Antonio Portland Cement Co., Lakeside Ave., San Antonio, $66,650. Noted May 29.

OFFICIAL PROPOSALS

Bids: July 1.

Bridge

Norristown, Pa.

Sealed proposals will be received at the office of the County Controller, Court House, Norristown, Penna., on July 1, 1924, at 10 o'clock Standard Time and opened at 11 o'clock Standard Time for furnishing tools, machinery, labor and materials necessary for the construction complete of a reinforced concrete bridge over the Schuylkill River on DeKalb Street, between Norristown and Bridgeport, Montgomery County, Penna., in full accordance with plans and specifications on file in the office of the County Commissioners.

The bridge consists of seven spans 115 ft. each and a total width of 60 ft.

All proposals must be for the work complete in full accordance with plans and specifications and must be made on the form of proposal attached to and forming a part of the specifications.

Copies of the plans and specifications may be obtained in the office of the Consulting Engineer, J. B. Long, 59-61 Boyer Arcade, Norristown, Penna., on payment of five dollars per set.

Each bidder must accompany his proposal with a certified check for $15,000.00 made payable to the Commissioners of Montgomery County, Penna., as a guarantee of good faith and to protect the County from any loss by failure to comply with the terms of the proposal. This check shall be handed to the Chief Clerk to the County Commissioners at least one hour before the time set for opening the bids.

The right is reserved to reject any or all bids.

WM. C. IRVIN,
County Controller.

Bids: June 30.

Paving, Sewers, Water Pipe, etc.

Wheeling, W. Va.

Sealed proposals, for the furnishing of all labor and material necessary in the construction of the improvements, listed below, at Oakmont, Tenth Ward, City of Wheeling, will be received by the Board of Directors of the Oakmont Improvement Company at its offices, 703 National Bank Building, Wheeling, W. Va., until 12 o'clock noon, June 30, 1924.

16,850 Sq. yards 7" reinforced concrete pavement.
10,000 Linear feet integral concrete curb.
35,700 Sq. feet concrete sidewalk.
1,300 Linear feet 6" vitrified tile sewer.
3,400 Linear feet 8" vitrified tile sewer.
1,600 Linear feet 10" vitrified tile sewer.
730 Linear feet 12" vitrified tile sewer.
1,100 Linear feet 24" vitrified tile sewer.
480 Linear feet 30" vitrified tile sewer.
32 Sewer manholes.
29 Drop inlets.
7,000 Linear feet 6" cast iron water pipe.
6,820 Linear feet 4" wrought iron gas pipe.
610 Linear feet 6" wrought iron gas pipe.

Certified check, made payable to the Oakmont Improvement Company, for five (5%) per cent of the amount bid, must accompany each proposal.

Plans and specifications are on file at the office of the Company.

Plans and specifications will be furnished at the cost of blue printing. Bidding blanks will be furnished free of charge.

OAKMONT IMPROVEMENT COMPANY
C. H. DOWLER,
President.

CONRAD & PUGH, Engineers.
Wheeling, W. Va.

Bids: June 18.

State Hospital Work

Utica, N. Y.

Sealed proposals for Heating Work—Repairs to Heating System (Main Building) Utica State Hospital, Utica, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2 o'clock P.M. (Standard Time) on Wednesday, June 18, 1924, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money, equal to five per cent (5%) of the amount of the proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4309. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Utica State Hospital, Utica, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway & 23rd St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: June 3, 1924.